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OM nucleic - nucleic search, using sw model

Run on: September 24, 2004, 11:55:08 ; Search time 756.953 Seconds
(without alignments)
9943.172 Million cell updates/sec

Title: US-09-737-297-1

Perfect score: 1486

Sequence: 1 gttagctcagattgaacgtct.....ctggggttgagctcagcg 1486

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3337386 seqs, 2532474682 residues

Total number of hits satisfying chosen parameters: 6674772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Published Applications NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	1131	76.1	1501	9	US-09-748-205-1
7	1131	76.1	1501	9	US-09-793-920A-1
8	1131	76.1	1501	9	US-09-951-720-1
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16	1131	76.1	1501	15	US-10-242-696-1	Sequence 1, Appli
17	1131	76.1	1501	16	US-10-411-319-1	Sequence 1, Appli
18	1131	76.1	1501	17	US-10-603-996-1	Sequence 1, Appli
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22	1113	74.9	1506	15	US-10-278-942-1	Sequence 1, Appli
23	1100.2	74.0	1467	9	US-09-726-774-3	Sequence 3, Appli
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26	1068	71.9	1494	14	US-10-007-725-5	Sequence 5, Appli
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43	1053.6	70.9	1549	9	US-09-912-020-242	Sequence 242, App
44	1053.6	70.9	1549	9	US-09-912-020-402	Sequence 402, App
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ALIGNMENTS

RESULT 1

US-09-737-297-1
; Sequence 1, Application US/09737297
; Patent No. US20020072108A1
; GENERAL INFORMATION:
; APPLICANT: Berry, Mark
; APPLICANT: Griffiths, Allen
; APPLICANT: Hall, Philip
; APPLICANT: Laybourne-Parry, Johanna
; APPLICANT: Mills, Sarah
; TITLE OF INVENTION: Processes and Organisms for the Production of Antifreeze Proteins
; FILE REFERENCE: F3247
; CURRENT APPLICATION NUMBER: US/09/737,297
; CURRENT FILING DATE: 2000-12-15
; PRIOR APPLICATION NUMBER: GB 9929696.4
; PRIOR FILING DATE: 1999-12-15
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 1486
; TYPE: DNA
; ORGANISM: Marinomonas protea
US-09-737-297-1

Query Match	100.0%	Score 1486;	DB 9;	Length 1486;
Best Local Similarity	100.0%	Pred. No. 0;		
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RESULT 5
US-09-821-016-5
; Sequence 5, Application US/09821016
; Patent No. US20010046692A1
; GENERAL INFORMATION:
; APPLICANT: CANON INC.
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 4051021
; CURRENT APPLICATION NUMBER: US/09/821,016
; CURRENT FILING DATE: 2001-03-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Word
; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376
; FEATURE:
US-09-821-016-5

Query Match 76.1%; Score 1131; DB 9; Length 1501;
Best Local Similarity 88.2%; Pred. No. 6.8e-299; Indels 9; Gaps 6;
Matches 1299; Conservative 0; Mismatches 165;
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QY 133 CATGTGAAACGATGCTAATACCGCATACGCTGAGGGGGAAGAGAGGGGAGCTCTTTCG 192
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QY 193 GAGCCTTTCGCTATTAGATGAGCTGCGTGAGATTAGCTAGTTGGTAGGGTAAAGGGCTA 252
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Db 296 GGTCCAGACTCTTACCGGAGGAGCAGTGGGGAATATTGGACAAATGGCGCAAGCCTGAT 355
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RESULT 6
US-09-748-205-1
; Sequence 1, Application US/09748205
; Patent No. US200202253A1
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxyalkanoate its manufacturing method, and microorganism
; FILE OF INVENTION: those are used for the method.
; FILE REFERENCE: 4351009
; CURRENT APPLICATION NUMBER: US/09/748,205
; CURRENT FILING DATE: 2000-12-27
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-09-748-205-1

Query Match 76.1%; Score 1131; DB 9; Length 1501;
Best Local Similarity 88.2%; Pred. No. 6.8e-299;
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

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QY 73 TGCTGACGAGCGGCGAGGCTGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 132
DB 59 TGAATTC-AGCGGCGGAGGCTGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 117
QY 133 CATGTGGAAACGATGCTAATACCGCATACGCTTACGCTTACGCTTACGCTTACGCTTACG 192
DB 118 CGTCTCGAAAGGAGCGCTAATACCGCATACGCTTACGCTTACGCTTACGCTTACGCTTAC 175
QY 193 GAGCCTTCGCTATTAGTAGGCTGCGTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 252
DB 176 GGGCCTTCGCTATTAGTAGGCTGCGTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 235
QY 253 CCAAGGCGAGCTTCAATGCTGCTGAGAGGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 312
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; PRIOR FILING DATE: 2000-09-14
; 2000-12-13
; 2001-05-31
; 2001-05-31
; 2001-09-11
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 strain.
US-09-951-720-1

Query Match      76.1%; Score 1131; DB 9; Length 1501;
Best Local Similarity 88.2%; Pred. No. 6.8e-299;
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

QY 13 TGAACGCTGGCGGAGGCTTAAACATGCAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC 72
Db 1 TGAACGCTGGCGGAGGCTTAAACATGCAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC 58

QY 73 TGCTGACGAGCGGCGGAGGCTTAAACATGCAAGTCGAGCGGTAAACAGGGAGGACAA 132
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QY 373 CAGGCAATCGCGGTGTGGAAGAGCGCTTAAAGGTGTAAGCACTTTACGGGGTGAGG 432
Db 356 CAGGCAATCGCGGTGTGGAAGAGCGCTTAAAGGTGTAAGCACTTTACGGGGTGAGG 415

QY 433 AAGGTGATAGGTAAATAGTTTATCATCTTGAGCTTAGCCCGAGAGGAGCAGCGCTAA 492
Db 416 AAGGTGATAGGTAAATAGTTTATCATCTTGAGCTTAGCCCGAGAGGAGCAGCGCTAA 475

QY 493 CTCTGTGCGAGCGCGGTAAATACAGAGGCTGCAAGCGTTAAATCGGAAATTAAGTGGCG 552
Db 476 CTCTGTGCGAGCGCGGTAAATACAGAGGCTGCAAGCGTTAAATCGGAAATTAAGTGGCG 535

QY 553 TAAAGCGCGGTAGTGGTTTGTAAAGTGGATGTAATCCAGGCTCAACCTTGA 612
Db 536 TAAAGCGCGGTAGTGGTTTGTAAAGTGGATGTAATCCAGGCTCAACCTTGA 595

QY 613 TGCGACCCGATAGCTAGTATGATGAGGAGGCTGGAATTTCTGTGTAGCG 672
Db 596 CTGCATTTAAAGTCAAGCTAGATGATGAGGAGGCTGGAATTTCTGTGTAGCG 655

QY 673 GTGAATGCTAGATATAGGAAGGAACATCAGTGGCGAAGGCGACACCTTGACTAATAC 732
Db 656 GTGAATGCTAGATATAGGAAGGAACATCAGTGGCGAAGGCGACACCTTGACTAATAC 715

QY 733 TGACACTGAGGTGCGAAGCGGTGGGAGCAACAGGATTAGATACCTGCTGATCCAGC 792
Db 716 TGACACTGAGGTGCGAAGCGGTGGGAGCAACAGGATTAGATACCTGCTGATCCAGC 775

QY 793 CGTAAACGATGCTACTAGCGTTGG- GTTGTAAATGATCTAGTGGCGAGCTTAACGCAA 850
Db 776 CGTAAACGATGCTACTAGCGTTGGAGGCTTGAAGCTCTTAGTGGCGAGCTTAACGCA 835

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RESULT 9

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US-09-791-610-1
; Sequence 1, Application US/09791610
; Publication No. US20030100084A1
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxyalkanoate containing 3-hydroxybenzoylethanoic acid as
; monomer unit, and method for producing the same.
; FILE REFERENCE: 4396021
; CURRENT APPLICATION NUMBER: US/09/791,610
; CURRENT FILING DATE: 2002-09-30
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-09-791-610-1

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Query Match      76.1%; Score 1131; DB 10; Length 1501;
Best Local Similarity 88.2%; Pred. No. 6.8e-299;
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

QY 13 TGAACGCTGGCGGAGGCTTAAACATGCAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC 72
Db 1 TGAACGCTGGCGGAGGCTTAAACATGCAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC 58

QY 73 TGCTGACGAGCGGCGGAGGCTTAAACATGCAAGTCGAGCGGTAAACAGGGAGGACAA 132

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Db 59 TGAATTC-AGCGCGGAGCGGGTGAAGTAATGCTAGGAATCTGCTGTAGTGGGGACAA 117
 Qy 133 CATGTGGAACCGCTAATACCCATACCGCTGAGGGGGAAGGAGGGGACTCTTCG 192
 Db 118 CGTCTGAAAGGAGCGCTAATACCCATACCGCTGAGGGGGAAGGAGGGGAA--CCTTC 175
 Qy 193 GAGCCTTCGGCTATTAGATGAGCCTCGCTGAGATTAGCTAGTTGGTAGGGTAAAGGCGCTA 252
 Db 176 GGGCCTTCGGCTATTAGATGAGCCTTAGTTCGATAGCTAGTTGGTAGGGTAAAGGCTCA 235
 Qy 253 CCAAGGCGACCATCTCTAATCTGCTGAGAGATGACCAAGTCACTCGGAGTGAAGAC 312
 Db 236 CCAAGGCGACCATCTCTAATCTGCTGAGAGATGATCAGTCACTCGGAGTGAAGAC 295
 Qy 313 GGGCAGACTCTCTAGGAGGAGCAGGAGGGGGAATTTGGCAATGGGCGCAGCGCTGAT 372
 Db 296 GGTTCAGACTCTCTAGGAGGAGCAGGAGGGGGAATTTGGCAATGGGCGGAAAGCGCTGAT 355
 Qy 373 CCAGCCATGCCGCTGTGTGAAGAGGCTTTAGGGTTGTAAAGCACTTTTCAGGGGTGAGG 432
 Db 356 CCAGCCATGCCGCTGTGTGAAGAGGCTTTTCGATTTGTAAGCACTTTTAAGTTGGAGG 415
 Qy 433 AAGGGTATAGGTTAATACGTTATCATCTTGACGTTAGCCCGCAGAGAACCGCGCTAA 492
 Db 416 AAGGGCAATTAACTAATACGTTAGTTTTCGACGTTACCGACAGAAATAAGCACCGCGCTAA 475
 Qy 493 CTCTGTGCGCAGCGCGGTAATACAGAGGCTGCAAGCGTTAATCGGAATTAATCTGGCG 552
 Db 476 CTCTGTGCGCAGCGCGGTAATACAGAGGCTGCAAGCGTTAATCGGAATTAATCTGGCG 535
 Qy 553 TAAAGCGCGGTAGGTTGTTTAAAGTCGATGTGAATCCAGGGCTCAACCTTGGAA 612
 Db 536 TAAAGCGCGGTAGGTTGTTTAAAGTCGATGTGAATCCAGGGCTCAACCTTGGAA 595
 Qy 613 TGGCACCGGATCTGCTAGCTAGATATGATAGAGGGGTGTGAATTTCTCTGTAGCG 672
 Db 596 CTGCAATTCAAAACATGCAAGCTAGATATGATAGAGGGGTGTGAATTTCTCTGTAGCG 655
 Qy 673 GTGAATTCGCTAGATATAGGAAGCAATCATGTCGCAAGCGCACCCCTGGACTATAC 732
 Db 656 GTGAATTCGCTAGATATAGGAAGCAATCATGTCGCAAGCGCACCCCTGGACTATAC 715
 Qy 733 TGACACTGAGGTGCGAAAGCGTGGGAGCAAAACAGGATTTAGATACCTCTGTAGTCCACGC 792
 Db 716 TGACACTGAGGTGCGAAAGCGTGGGAGCAAAACAGGATTTAGATACCTCTGTAGTCCACGC 775
 Qy 793 CGTAAACGATGCTACTAGCGGTGG--GTGTGAATGACTAGTGGCGGAGCTAACGCA 850
 Db 776 CGTAAACGATGCTACTAGCGGTGGGAGCCTTGAGCTCTTTAGTGGCGGAGCTAACGCA 835
 Qy 851 TAAGTAGACCGCTGGGAGGTACGCGCGCAAGGTTAAACCTCAATGCAATTTGACGGGGC 910
 Db 836 TAAGTTGACCGCTGGGAGGTACGCGCGCAAGGTTAAACCTCAATGCAATTTGACGGGGC 895
 Qy 911 CCGCACAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGCGAAGAACCTTACTACTC 970
 Db 896 CCGCACAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGCGAAGAACCTTACTACTC 955
 Qy 971 TTGACATCCACAGAAATTTGAGAGATCAGATGGTGGCTTCGGGAACTGTGAGACAGGTG 1030
 Db 956 TTGACATCCAAATGAACCTTTCCAGAGATGATGGTGGCTTCGGGAACTGTGAGACAGGTG 1015
 Qy 1031 CTGCATGGCTGCTGAGCTGCTGTTGTAAGTGTGGGTTAAGTCCCGTAAAGGCGCA 1090
 Db 1016 CTGCATGGCTGCTGAGCTGCTGTTGTAAGTGTGGGTTAAGTCCCGTAAAGGCGCA 1075
 Qy 1091 ACCCTTGTCTCTATTGTCACGACGATTAATGTTGGGAACTTTAAGGAGACTGCCGTTGACA 1150
 Db 1076 ACCCTTGTCTCTATTGTCACGACGATTAATGTTGGGCACTCTAAGGAGACTGCCGTTGACA 1135
 Qy 1151 AACCGGAGGAGGTGGGGAACAGCTCAAGTCAATGCGCCCTTACGAGTAGGCTACACA 1210
 Db 1136 AACCGGAGGAGGTGGGGAACAGCTCAAGTCAATGCGCCCTTACGCGCTTGGGCTACACA 1195

Qy 1211 CGTCTACAAATGGCGTATACAGAGGCTGCAAGCTAGCGATAGTAGGAGGAATCCACAAA 1270
 Db 1196 CGTCTACAAATGGCGTATACAGAGGCTGCAAGCTAGCGATAGTAGGAGGAATCCACAAA 1255
 Qy 1271 GTACGTCCTAGTCCGGAATTGGAGTTGCAACTCGACTCCATGAAGTCGGAATCGCTAGTA 1330
 Db 1256 ACCGATCGTAGTCCGGAATCGGATCGCACTCGACTCGGTAAGTCGGAATCGCTAGTA 1315
 Qy 1331 ATCGTAATCAAGATGTACGGTGAATACGTTCCCGGCGCTTTGTACACACCGCCCGCTCAC 1390
 Db 1316 ATCGGAATCAAGATGTGCGGTGAATACGTTCCCGGCGCTTTGTACACACCGCCCGCTCAC 1375
 Qy 1391 ACCATGGGAGTTGATTGCTCCAGAGTAGCTAGCTTAACCTTCGGGATGGCGGTTACC 1450
 Db 1376 ACCATGGGAGTTGATTGCTCCAGAGTAGCTAGCTTAACCTTCGGGATGGCGGTTACC 1433
 Qy 1451 ACCGAGTGGTCAATGACTGGGGTTGAAAGTCTAC 1483
 Db 1434 ACCGTGTGATTCACTGAGCTGGGGTGAAGTCGTAC 1466

RESULT 10

US-10-649-646-1
 ; Sequence 1, Application US/10649646
 ; Publication No. US20040067576A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Canon Inc.
 ; TITLE OF INVENTION: Polynucleotide, Method For Production Thereof And Microorganisms
 ; FILE REFERENCE: 03500.015001.2
 ; CURRENT APPLICATION NUMBER: US/10/649,646
 ; CURRENT FILING DATE: 2003-08-28
 ; PRIOR APPLICATION NUMBER: JP 11-371863
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 2000-023078
 ; PRIOR FILING DATE: 2000-01-31
 ; PRIOR APPLICATION NUMBER: JP 2000-023080
 ; PRIOR FILING DATE: 2000-01-31
 ; PRIOR APPLICATION NUMBER: JP 2000-023083
 ; PRIOR FILING DATE: 2000-01-31
 ; PRIOR APPLICATION NUMBER: JP 2000-095011
 ; PRIOR FILING DATE: 2000-03-30
 ; PRIOR APPLICATION NUMBER: JP 2000-095012
 ; PRIOR FILING DATE: 2000-03-30
 ; PRIOR APPLICATION NUMBER: JP 2000-095013
 ; PRIOR FILING DATE: 2000-03-30
 ; PRIOR APPLICATION NUMBER: JP 2000-207089
 ; PRIOR FILING DATE: 2000-07-07
 ; PRIOR APPLICATION NUMBER: JP 2000-207091
 ; PRIOR FILING DATE: 2000-07-07
 ; PRIOR APPLICATION NUMBER: JP 2000-359789
 ; PRIOR FILING DATE: 2000-11-27
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 1
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 1
 ; LENGTH: 1501
 ; TYPE: DNA
 ; ORGANISM: pseudomonas jessenii 161 strain
 US-10-649-646-1

Query Match 76.1%; Score 1131; DB 13; Length 1501;
 Best Local Similarity 88.2%; Pred. No. 6.8e-299;
 Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;
 Qy 13 TGAACGCTGGCGCAGGCTTAAACACATGCAAGTCGAGCGGTAAACAGGGAGCTTGTCTC 72
 Db 1 TGAACGCTGGCGCAGGCTTAAACACATGCAAGTCGAGCGGTAAACAGGGAGCTTGTCTC 58
 Qy 73 TGTGACGAGCGCGGAGCGGTGAGTAAACGCTAGGAATCTGCTAGTAGTAGAGGGGACAA 132
 Db 59 TGAATTC-AGCGCGGAGCGGTGAGTAAACGCTAGGAATCTGCTAGTAGTAGAGGGGACAA 117

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133 CATGTGGAAACGCGATGCTAATACCGCATACGCCCTGAGGGGAAAGGAGGGGACTCTTCG 192
118 CGTCTCGAAAGGAGCGCTAATACCCGATACGTCCTACGGGAAAGAGAGGGA--CCTTC 175
193 GAGCCTTCGGCTATTAGATGAGCCTGCGGTGAGATTAGCTAGTTGGTGAAGGCGCTA 252
176 GGGCCTTCGGCTATCAGATGAGCCTAGCTAGTTCGATTAGCTAGTTGGTGAAGTAAATGGCTCA 235
253 CCAAGGCGACGATCTCTAATCTGGTCTGAGAGGATGACCACTGAGGACTGAGACAC 312
236 CCAAGGCGACGATCTCTAATCTGGTCTGAGAGGATGATCAGTCACACTGGAATCTGAGACAC 295
313 GGCCAGAGCTCTACGGGAGGCGAGCTGGGGAATATTGGCAATGGGCGCAAGCCTGAT 372
296 GGTCAGAGCTCTCTACGGGAGGCGAGCTGGGGAATATTGGCAATGGGCGCAAGCCTGAT 355
373 CCAGCCATGCCGCGTGTGTGAAGAGGCGCTTAGGGTTGTAAAGCACTTTTCAGGGGTGAGG 432
356 CCAGCCATGCCGCGTGTGTGAAGAGGCTTTCGGATTGTAAAGCACTTTAAAGTTGGGAGG 415
433 AAGGTGATAGGTTAATACGTTTATCATCTTGACGTTAGCCCCAGAAAGCAACCGGCTAA 492
416 AAGGCACTTAACCTTAATACGTTTGTAGTTTGTGACGTTACCGACAGAAATAGCAACCGGCTAA 475
493 CTCTGTGCCAGCAGCGCGGTAAATACAGAGGTTGCAAGCGTTAATCGGAATTAATCTGGGCG 552
476 CTCTGTGCCAGCAGCGCGGTAAATACAGAGGTTGCAAGCGTTAATCGGAATTAATCTGGGCG 535
553 TAAAGCGCGTGTAGTGGTTTGTAAAGTCGATGTGAATCCAGGGCTCAACCTTGGAA 612
536 TAAAGCGCGTGTAGTGGTTTGTAAAGTTGGATTGTGAAGCGCCCGGCTCAACCTGGGAA 595
613 TGGACCCGATCTAGCTAGCTAGTATGATGAGGGGTGGAAATTCCTGTGTAGCG 672
596 CTGCATTCAAAACCTGACAGCTAGATGGTAGAGGGTGGTGAATTTCTGTGTAGCG 655
673 GTGAATGCGTAGATATAGGAAGGAACATCAGTGGCGAAGGCGACACCTCGACCTAAATAC 732
656 GTGAATGCGTAGATATAGGAAGGAACACACAGTGGCGAAGGCGACACCTCGACCTGATAC 715
733 TGACACTGAGGTGCGAAACGCTGGGAGCAAAACAGGATTAGATACCTGGTGTAGTCACGC 792
716 TGACACTGAGGTGCGAAACGCTGGGAGCAAAACAGGATTAGATACCTGGTGTAGTCACGC 775
793 CGTAAACGATGTCAACTAGCCGTTGGAGCCTTTGAGCTCTTAGTGGCGCAGCTTAACGCAT 850
776 CGTAAACGATGTCAACTAGCCGTTGGAGCCTTTGAGCTCTTAGTGGCGCAGCTTAACGCAT 835
851 TAAGTAGACCGCTGGGGAGTAGCGCGCAAGGTTAAAACTCAAAATGAATTGACGGGGGC 910
836 TAAGTAGACCGCTGGGGAGTAGCGCGCAAGGTTAAAACTCAAAATGAATTGACGGGGGC 895
911 CCGCAACAGCGGTGAGCAATGTGGTTTAAATTCGAAGCAACGCGAAGAACTTACCTACTCTC 970
896 CCGCAACAGCGGTGAGCAATGTGGTTTAAATTCGAAGCAACGCGAAGAACTTACCAAGGCC 955
971 TTGACATCCACAGACATTTGAGAGATCAGATGGTGCCTTCGGGACTCTGAGACAGGTG 1030
956 TTGACATCCAAATGAACTTTCCAGAGATGGATGGGTGCCCTTCGGGAAACATTTGAGACAGGTG 1015
1031 CTGCAATGGCTGTCTGAGCTCGTGTGTGAATTTGGGTTAAGTCCCGCTAACGAGCGCA 1090
1016 CTGCAATGGCTGTCTGAGCTCGTGTGTGAGATGTTGGGTTAAGTCCCGCTAACGAGCGCA 1075
1091 ACCCTTGTCTTATTTGCGACGACGTAATGTGGGAACTTTAAGGAGACTGCGCGGTGACA 1150
1076 ACCCTTGTCTTATTTACAGACGCTAATGTGGGCACTCTAAGAGAGACTGCGCGGTGACA 1135
1151 AACCGGAGAAAGTGGGAGCGAGCTCAAGTTCATCTAGGCCCTTACAGTAGGGCTACACA 1210
1136 AACCGGAGAAAGTGGGAGTACGTCATGTCATCTGAGGCTTACCGGCTGGGCTACACA 1195
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1211 CGTCTCAATAGCGGTATACAGAGGGCTGCAAGCTAGCGATAGTAGCGAATCCACAAA 1270
1196 CGTCTCAATAGTTCGGTACAGAGGGTTGCCAAGCGCGAGGTAGGTAAATCCACAAA 1255
1271 GTACGTCTAGTTCGGATTGGAGTCTGCAACTCGACTCCATCCATGAGTTCGGAATCGCTAGTA 1330
1256 ACCGATCTAGTTCGGGATCGCAGTCTGCAACTCGACTCCGCTGGAATCGCTAGTA 1315
1331 ATCGTGAATCAGAATGTCTACGCTGAATACGTTTCCCGGCGCTTGTACACACCGCCCGTCA 1390
1316 ATCGGGAATCAGAATGTCTCGGCTGAATACGTTTCCCGGCGCTTGTACACACCGCCCGTCA 1375
1391 ACCATGGGAGTTGATTGCTCCAGAGTAGCTAGCTTAACCCCTTCGGGATGCGGTTACC 1450
1376 ACCATGGGAGTTGGTTGCACCAAGTAGCTAGTCTAAC--TTCCGGAGGACGCTTACC 1433
1451 ACGGAGTGTCAATGACTGGGGTTGAAGTCTAC 1483
1434 ACGGTGTGATTTCATGACTGGGGTGAAGTCGTAC 1466

RESULT 11
US-10-218-519-5
; Sequence 5, Application US/10218519
; Publication No. US20030049806A1
; GENERAL INFORMATION:
; APPLICANT: Yano, Tetsuya
; APPLICANT: Imamura, Takeshi
; APPLICANT: Suda, Sakae
; APPLICANT: Honma, Tsutomu
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 03500.015225.1
; CURRENT APPLICATION NUMBER: US/10/218,519
; CURRENT FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/821,016
; PRIOR FILING DATE: 2001-03-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Word
; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376
; FEATURE: cDNA to 16S rRNA
; US-10-218-519-5

Query Match 76.1%; Score 1131; DB 15; Length 1501;
Best Local Similarity 88.2%; Pred. No. 6.8e-299;
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

13 TGAACGCTGGCGGCGAGGCTTAAACACATGCAAGTCGAGCGGTAAACAGGGGAGCTTGCTCC 72
1 TGAACGCTGGCGGCGAGGCTTAAACACATGCAAGTCGAGCGG-ATGACGGGAGCTTGCTCC 58
73 TCGTGAACGAGCGCGGAGCGGTGAGTAAACGCTAGGAAATCTGCCTAGTAGAGGGGACAA 132
59 TGAATTC-AGCGCGGAGCGGAGTAAATGCTAGGAAATCTGCCTGTTAGTGGGGACAA 117
133 CATGTGGAACCATGCTAATACCGCATACGCCCTGAGGGGAAAGGAGGAGCTTCTCG 192
118 CGTCTCGAAAGGAGCGCTAATACCGCATACGCTTACGCGAAGAACGAGCGGA--CCTTC 175
193 GAGCCTTCGGCTATTAGATGAGCCTGCGGTGAGATTAGCTAGTTGGTGAAGGCGCTA 252
176 GGGCCTTCGGCTATCAGATGAGCCTAGGTCCGATTAGCTAGTTGGTGAAGTAAATGGCTCA 235
253 CCAAGGCGACGATCTCTAATCTGGTCTGAGAGGATGACCACTGAGGACTGAGACAC 312
236 CCAAGGCGACGATCTCTAATCTGGTCTGAGAGGATGATCAGTCACCTGGAATCTGAGACAC 295
313 GGCCAGAGCTCTACGGGAGGCGAGCTGGGGAATATTGGCAATGGGCGCAAGCCTGAT 372
296 GGTCAGAGCTCTCTACGGGAGGCGAGCTGGGGAATATTGGCAATGGGCGCAAGCCTGAT 355
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QY 613 TGGACCCGACTAGCTAGCTAGATGTTAGAGGGGTGGGAATTTCTGTGTAGCG 672
Db 596 CTGCATTCAAAACACTGACAGCTAGAGTATGTTAGAGGGGTGGGAATTTCTGTGTAGCG 655
QY 673 GTGAATCGGTAGATATAGGAAGAACATCAGTGGCGAAGCGACACCTGGACTTAATAC 732
Db 656 GTGAATCGGTAGATATAGGAAGAACACCACTGGCGAAGCGACCACTGGACTGATAC 715
QY 733 TGACACTGAGGTGCGAAGCGTGGGAGCAACAGATAGATACCTGGTGTACCGC 792
Db 716 TGACACTGAGGTGCGAAGCGTGGGAGCAACAGATAGATACCTGGTGTACCGC 775
QY 793 CGTAAACGATGTCTACTAGCCGTTGG--GTTGTAATGACTAGTGGCGCAGCTAACGCAA 850
Db 776 CGTAAACGATGTCACTAGCCGTTGGGAGCCTTGAGCTTAGTGGCGCAGCTAACGCA 835
QY 851 TAACTAGACCGCTCGGAGTACGCGCGCAAGGTTAAACTCAATGAATGACCGGGGC 910
Db 836 TAACTAGACCGCTCGGAGTACGCGCGCAAGGTTAAACTCAATGAATGACCGGGGC 895
QY 911 CGGCAACGCGTGGAGCATGTGGTTAAATTCGAAGCAACGCGAAGAACCTTACCTACTC 970
Db 896 CGGCAACGCGTGGAGCATGTGGTTAAATTCGAAGCAACGCGAAGAACCTTACCTACTC 955
QY 971 TTGACATCCACAGAACATTTGAGAGATCAGATGGTGGCTTCGGGAACCTGTGAGACAGGTG 1030
Db 956 TTGACATCCATGAATCTTCAGAGATGGATGGTGGCTTCGGGAACCTGTGAGACAGGTG 1015
QY 1031 CTGCATGCGTGTGCTGAGCTCGTGTGTTGAATGTTGGGTTAACTCCCGTAAACGAGCGCA 1090
Db 1016 CTGCATGCGTGTGCTGAGCTCGTGTGTTGAATGTTGGGTTAACTCCCGTAAACGAGCGCA 1075
QY 1091 ACCTGTGCTTTATTTGCGACGACGATGATGGTGGCACTTTAAGGAGACTGCGGTTGACA 1150
Db 1076 ACCTGTGCTTTATTTGCGACGACGATGATGGTGGCACTTTAAGGAGACTGCGGTTGACA 1135
QY 1151 AACCGGAGGAGGTGGGACGACGCTCAAGTCAATCATGCGCTTACGAGTAGGGCTACACA 1210
Db 1136 AACCGGAGGAGGTGGGATGACGCTCAAGTCAATCATGCGCTTACGAGTAGGGCTACACA 1195
QY 1211 CCGTGTACAAATCGGCTATACAGAGGCTGCAAGGCTGCAAGCTAGCAGTGAAGCGAATCCACAAA 1270
Db 1196 CCGTGTACAAATCGGCTATACAGAGGTTGCCAAGCGCGAGGTGGAGCTAATCCACAAA 1255
QY 1271 GTACGTCGTAGTCCGATTTGGAGTCTGCAACTCGACTCCATGAAGTCGGAATCGCTAGTA 1330
Db 1256 ACCGATCGTAGTCCGATTCGCAACTCGACTCCATGAAGTCGGAATCGCTAGTA 1315
QY 1331 ATCGTGAATCAGAAATGTCACGCTGAATACGTTCCCGGGCTTTGTACACACCCCGCTCAC 1390
Db 1316 ATCGGGAATCAGAAATGTCGCGGTGAATACGTTCCCGGGCTTTGTACACACCCCGCTCAC 1375
QY 1391 ACCATGGGAGTTGATTTGCTCCAGAACTAGTAGCTTAACCTTCGGGGATGGCGGTTACC 1450
Db 1376 ACCATGGGAGTTGATTTGCTCCAGAACTAGTAGCTTAACCTTCGGGGAGCGGTTACC 1433
QY 1451 ACGGAGTGTCAATGACTCGGGTTGAAGTCTAC 1483
Db 1434 ACGGAGTGTCAATGACTCGGGTTGAAGTCTAC 1466

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RESULT 13
US-10-252-518-5
; Sequence 5, Application US/10252518
; Publication No. US20030087413A1
; GENERAL INFORMATION:
; APPLICANT: Imamura, Takeshi
; APPLICANT: Suda, Sakae
; APPLICANT: Honma, Tsutomu
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 03500.015225.2

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; CURRENT APPLICATION NUMBER: US/10/252,518
; CURRENT FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: JP 2000-095004
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Word
; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376
; FEATURE: cDNA to 16S rRNA
; FEATURE: Mismatches 165; Indels 9; Gaps 6;
US-10-252-518-5

```

```

Query Match 76.1%; Score 1131; DB 15; Length 1501;
Best Local Similarity 88.2%; Pred. No. 6.8e-299;
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

QY 13 TGAACGCTGGCGGCGAGGCTTAAACACATGCAAGTGCAGCGGTAAACAGGGGAGCTTGCTCC 72
Db 1 TGAACGCTGGCGGCGAGGCTTAAACACATGCAAGTGCAGCGG--ATGACCGGAGCTTGCTCC 58
QY 73 TCCTCAACGAGCGCGGAGCGGGTGAAGCGGTAGTAATCTGCTAGTAGAGGGGACAA 132
Db 59 TGAATTC--AGCGCGGAGCGGGTGAATGCTCTAGTAATCTGCTAGTAGAGGGGACAA 117
QY 133 CATGTGGAACGCGATGCTAATACCCATACGCGCTGAGGGGGAAGAGGGGAGCTTTCCG 192
Db 118 CGTCTCGAAGGAGCGCTAATACCGCATACGTCCTACGGGAGAAAGCAGGGGA--CCTTC 175
QY 193 GAGCCTTCGCTATTAGATGAGCCCTGCGTGAATGATGATGATGATGATGATGATGATGATGAT 252
Db 176 GGGCCTTCGCTATTAGATGAGCCCTGCGTGAATGATGATGATGATGATGATGATGATGATGAT 235
QY 253 CCAAGGCGAGCATCTTAACCTGCTGAGAGGATGATGATGATGATGATGATGATGATGATGATGAT 312
Db 236 CCAAGGCGAGCATCTTAACCTGCTGAGAGGATGATGATGATGATGATGATGATGATGATGATGAT 295
QY 313 GCGCCAGACTCTTACGCGGAGCGAGCAGTGGGGAATATTGGCAATATTGGCAATATTGGCAAT 372
Db 296 GGTCCAGACTCTTACGCGGAGCGAGCAGTGGGGAATATTGGCAATATTGGCAATATTGGCAAT 355
QY 373 CAGCCATGCGCGCTGTGTGAAGAGGCTTAGGGTTGTAAAGCACTTTCAGGGGTGAGG 432
Db 356 CAGCCATGCGCGCTGTGTGAAGAGGCTTTCGGATTGTAAAGCACTTTCAGGGGTGAGG 415
QY 433 AAGGGTGAAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 492
Db 416 AAGGGTGAAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 475
QY 493 CTCTGTGCGCAGCGCGGCTAATACAGAGGCTGCAAGCTTTAATCGGAATTTACTGGGCG 552
Db 476 CTCTGTGCGCAGCGCGGCTAATACAGAGGCTGCAAGCTTTAATCGGAATTTACTGGGCG 535
QY 553 TAAAGCGCGCTAGGTGTTTAAAGTCGATGTAATCCAGGGCTCAACCTTGGAA 612
Db 536 TAAAGCGCGCTAGGTGTTTAAAGTCGATGTAATCCAGGGCTCAACCTTGGAA 595
QY 613 TGGCACCAGATGCTAGCTAGTAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 672
Db 596 CTGCATTCAAAACACTGACAAGCTAGATGATGATGATGATGATGATGATGATGATGATGATGAT 655
QY 673 GTGAATCGGTAGATATAGGAAGAACACCACTGGCGAAGCGACACCTTGAGCTAATAC 732
Db 656 GTGAATCGGTAGATATAGGAAGAACACCACTGGCGAAGCGACACCTTGAGCTAATAC 715
QY 733 TCACACTGAGGTGCGAAGCGTGGGAGCAACAGATAGATACCTCGTAGTCCACGC 792
Db 716 TCACACTGAGGTGCGAAGCGTGGGAGCAACAGATAGATACCTCGTAGTCCACGC 775
QY 793 CGTAAACGATGTCTACTAGCCGTTGG--GTTGTAATGACTAGTGGCGCAGCTTAACGCAA 850
Db 776 CGTAAACGATGTCTACTAGCCGTTGGGAGCCTTGAGCTTAGTGGCGCAGCTTAACGCA 835

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851 TAAGTAGACCGCTGGGAGTAGCGCGCAAGGTTAAATCTAAATGAATTGACGGGGC 910
836 TAAATTGACCGCTGGGAGTAGCGCGCAAGGTTAAATCTAAATGAATTGACGGGGC 895
911 CCGCACAAAGCGGTGACGATGTTGTTAAATTCGAAGCAACGCGAAGAACCTTACTACTC 970
896 CCGCACAAAGCGGTGACGATGTTGTTAAATTCGAAGCAACGCGAAGAACCTTACTACTC 955
971 TTGACATCCACAGAACATTTGAGAGATCAGATGGTGCCTTCGGGAACTGTGAGACAGGTG 1030
956 TTGACATCCAAATGAATTTTCAGAGATGGATGGTGCCTTCGGGAACTGTGAGACAGGTG 1015
1031 CTGCATCGCTGTCGTGACGTCGTGTTGAAATGTTGCGGTAAAGTCCCGTAAACGAGCGCA 1090
1016 CTGCATCGCTGTCGTGACGTCGTGTTGAAATGTTGCGGTAAAGTCCCGTAAACGAGCGCA 1075
1091 ACCCTTGTCTTATTTTCCAGACAGTAAATGTTGGGAACTTTTAAAGGAGACTGCCGCTGACA 1150
1076 ACCCTTGTCTTATTTTCCAGACAGTAAATGTTGGGAACTTTTAAAGGAGACTGCCGCTGACA 1135
1151 AACCGAGGAGAGTGGGAGACGTCCTAAGTATCATGCGCCCTTACGAGTAGGGCTACACA 1210
1136 AACCGAGGAGAGTGGGAGACGTCCTAAGTATCATGCGCCCTTACGAGTAGGGCTACACA 1195
1211 CGTCTACAAATGGCTATACAGAGGCTGCAAGTACGATAGTGGGAACTTTTAAAGGAGACTGCCGCTGACA 1270
1196 CGTCTACAAATGGCTATACAGAGGCTGCAAGTACGATAGTGGGAACTTTTAAAGGAGACTGCCGCTGACA 1255
1271 GTACGTCGTAGTCCGGATTTGAGTCTGCAACTCGACTCCATGAACTCGGAACTCGCTAGTA 1330
1256 ACCGATCGTAGTCCGGATTTGAGTCTGCAACTCGACTCGGAACTCGCTAGTA 1315
1331 ATCGTGAATCAGAAATGTCAGTGAATACGTTCCCGGCGCTTTGACACACCGCCCGTAC 1390
1316 ATCGGAATCAGAAATGTCAGTGAATACGTTCCCGGCGCTTTGACACACCGCCCGTAC 1375
1391 ACCATGGAGTTGATTCCTCAGAGTAGTCTTAACCTTCGGGATGCGCGCTTACC 1450
1376 ACCATGGAGTTGATTCCTCAGAGTAGTCTTAACCTTCGGGATGCGCGCTTACC 1433
1451 ACGGAGTGGTCAATGACTGGGGTTGAACTCTAC 1483
1434 ACGTGTGATTCATGACTGGGGTGAAGTCTGATC 1466

RESULT 14
US-10-105-305-1
; Sequence 1, Application US/10105305
; Publication No. US20030096182A1
; GENERAL INFORMATION:
; APPLICANT: CANON KABUSHIKI KAISHA
; TITLE OF INVENTION: POLYHYDROXYALKANOATE CONTAINING UNIT WITH THIENYL STRUCTURE IN THE
; TITLE OF INVENTION: CHAIN, PROCESS FOR ITS PRODUCTION, CHARGE CONTROL AGENT, TONER H
; TITLE OF INVENTION: TONER WHICH CONTAIN THIS POLYHYDROXYALKANOATE, AND IMAGE-FORMING
; TITLE OF INVENTION: IMAGE-FORMING APPARATUS WHICH MAKE USE OF THE TONER
; FILE REFERENCE: CF016309
; CURRENT APPLICATION NUMBER: US/10/105.305
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: JP 2001-090026, JP 2001-133551
; PRIOR FILING DATE: 2001-3-27, 2001-4-27
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-10-105-305-1

Query Match 76.1%; Score 1131; DB 15; Length 1501;
Best Local Similarity 88.2%; Pred. No. 6.8e-299;
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

13 TGAACGCTGGCGGAGGCTTAAACACATGCAAGTCGAGCGGTAAACAGGAGCTTGCTCC 72

1 TGAACGCTGGCGGAGGCTTAAACACATGCAAGTCGAGCGGTAAACAGGAGCTTGCTCC 58
73 TGCTGACGAGCGCGGAGCGGTGAGTAACCGGTAGGAATCTGCTCTAGTAGAGGGGACAA 132
59 TGAATTC-AGCGGCGGAGCGGTGAGTAATGCTAGGAATCTGCTCTAGTAGAGGGGACAA 117
133 CATGTGAAAACGATGCTAATACCGCATACGCTGAGGGGAAAGAGAGGAGCTCTTCG 192
118 CGTCTCGAAAGGAGCGCTAATACCGCATACGCTCTAGCGGAGAAAGCAGGGGA--CCTTC 175
193 GAGCCTTCCCGCTATTTAGATGAGCGCTCGGTGAGATTTAGCTAGTTGGTAAAGGCGCTA 252
176 GGGCTTTCGCTATCAGATGAGCGCTAGTTCGGATTAGCTAGTTGGTGAAGTAAATGGCTCA 235
253 CCAAGGCGAGCATCTCTAATCGTCTGAGAGGATGACCACTGAGGAGCTGAGACAC 312
236 CCAAGGCGAGCATCTCGTAACTGCTGAGAGGATGATCAGTCACACTGGAACCTGAGACAC 295
313 GGCCGACACTCTACCGGAGGCGAGCAGTGGGGAATATTGGACAATGGCGCAAGCCTGAT 372
296 GGTCCAGACTCTTACCGGAGGCGAGCTGGGGAATATTGGACAATGGCGCAAGCCTGAT 355
373 CCAAGCCTATCGCGGTGTTGGAAGAAGCCTTACGAGTTTGAAGCAGCTTTTCAAGGAGG 432
356 CCAAGCCTATCGCGGTGTTGGAAGAAGCCTTTCGAGTTTGAAGCAGCTTTTAAAGTTGGGAG 415
433 AAGGCTGATAGTTTAACTGATATCATCTTTCAGTTCAGTTCAGGAGGAGGAGGAGGAGGAGG 492
416 AAGGCTGATTAACCTTAACTGATATCATCTTTCAGTTCAGTTCAGGAGGAGGAGGAGGAGG 475
493 CTCTGTCGAGGAGGCGCGGTAAATACAGAGGCTGCAAGCGTTAATCGGAATTTACTGGGCG 552
476 CTCTGTCGAGGAGGCGCGGTAAATACAGAGGCTGCAAGCGTTAATCGGAATTTACTGGGCG 535
553 TAAAGCGCGGTAGGTTGTTGTTAAGTTCGATGTTGAAATCCCAGGCTCAACCTTGGAA 612
536 TAAAGCGCGGTAGGTTGTTGTTAAGTTCGATGTTGAAATCCCAGGCTCAACCTTGGAA 595
613 TGGCACCAGTACTGCTGCTAGTATGATGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 672
596 CTGCAATCAAACTGCAAGCTAGTATGATGATGAGGAGGAGGAGGAGGAGGAGGAGGAGG 655
673 GTGAATGCGGTAGATATAGGAAGCAATCAGTGGCGAGGAGGAGGAGGAGGAGGAGGAGGAG 732
656 GTGAATGCGGTAGATATAGGAAGCAATCAGTGGCGAGGAGGAGGAGGAGGAGGAGGAGGAG 715
733 TGACACTGAGGTGCGAAAGCGTGGGAGCAACAGGATTTAGATACCTTGGTGGTCCAGCG 792
716 TGACACTGAGGTGCGAAAGCGTGGGAGCAACAGGATTTAGATACCTTGGTGGTCCAGCG 775
793 CGTAAACGATGCTACTAGCGGTTGG--GTTGTAATGACTTAGTGGGCGAGCTAACGCA 850
776 CGTAAACGATGCTCAACTAGCGGTTGGGAGGCTTTGAGCTCTTAGTGGCGAGCTAACGCA 835
851 TAAGTACACCGCTGGGAGTACGCGCGAAGGTTTAAACTCAAACTCAAACTCAAACTCAAACTCA 910
836 TAAGTTGACCGCTGGGAGTACGCGCGAAGGTTTAAACTCAAACTCAAACTCAAACTCAAACTCA 895
911 CCGCACAAAGCGGTGGAGCATGTTGTTTAAATTCGAAGCAACGCGAAGAACCTTACTACTC 970
896 CCGCACAAAGCGGTGGAGCATGTTGTTTAAATTCGAAGCAACGCGAAGAACCTTACTACTC 955
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956 TTGACATCCAAATGAATTTTCCAGAGATGGATGGTGCCTTCGGGAACTGTGAGACAGGTG 1015
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1091 ACCCTTGTCTTATTTTCCAGACAGTAAATGTTGGGAACTTTTAAAGGAGACTGCCGCTGACA 1150

Db 1076 ACCCTTGCTCTTCTAGTTACAGACGTAATGGTGGGCACTCTTAAGGAGACTGCGGGTGACA 1135
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Db 1136 AACCGGAGGAAGCTGGGGATGACGTCAAGTCAATCATGGCCCTTTACGCGCTGGGCTACACA 1195
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Db 1196 CGTGCTACAAATGGCTCGGTACAGAGGGTTGCCAAGCCGGGAGGTGAGGCTAATCCACAAA 1255
QY 1271 GTACGCTGTAAGTCGGATGGAGTCTGCAACTCGACTCATGAAGTCGGAATCGCTAGTA 1330
Db 1256 ACCGATCGTAGTCCGGATCGCAGTCTGCAACTCGACTCGTGGTGAAGTCGGAATCGCTAGTA 1315
QY 1331 ATCGTGAATCAGAAATGTCACGGTGAATACGTTCCCGGGCTTTGTACACACCCCGCTCAC 1390
Db 1316 ATCGCGAATCAGAAATGTCGGGTGAATAGCTTTCCCGGGCTTTGTACACACCCCGCTCAC 1375
QY 1391 ACCATGGGAGTTGATGCTCCGAAGTAGCTAGCTTAACCCCTTCGGGGATGGCGGTTACC 1450
Db 1376 ACCATGGGAGTTGCTGACACGAGATAGCTAGCTTAACCCCTTCGGGGAGGACGGTTACC 1433
QY 1451 ACGGAGTGTCAATGACTGGGCTTGAAGTCTAC 1483
Db 1434 ACGGTGTGATTCATGACTGGGGTGAAGTCGTAC 1466

RESULT 15
US-10-133-404A-1
; Sequence 1, Application US/10133404A
; Publication No. US20030104302A1
; GENERAL INFORMATION:
; APPLICANT: Tsutomu Honma
; APPLICANT: Tetsuya Yano
; APPLICANT: Tsuyoshi No. US20030104302A1oto
; APPLICANT: Shinya Kozaki
; TITLE OF INVENTION: Construct and Method for Making It
; FILE REFERENCE: CPO16374
; CURRENT APPLICATION NUMBER: US/10/133,404A
; CURRENT FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: JP P2001-131694
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: JP P2001-208704
; PRIOR FILING DATE: 2001-07-10
; NUMBER OF SEQ ID NOS: 13
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jeesenii 161 strain
US-10-133-404A-1

Query Match 76.1%; Score 1131; DB 15; Length 1501;
Best Local Similarity 88.2%; Pred. No. 6, 8e-299;
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

QY 13 TGAACGCTGGCGGAGGCTTAAACATGCAAGTCGAGCGGTAAACAGGGGAGCTTGCTCC 72
Db 1 TGAACGCTGGCGGAGGCTTAAACATGCAAGTCGAGCGGTAAACAGGGGAGCTTGCTCC 58
QY 73 TGCTGACGAGCGGAGCGGTGAGTACGGTAGGAATCTGCTAGTAGAGGGGACAA 132
Db 59 TGAATTC-AGCGGGGAGCGGTGAGTAAATGCTAGGAATCTGCTAGTAGAGGGGACAA 117
QY 133 CATGTGGAACGCTAGCTAATACCGCATACGCCCTGAGGGGAAAGGAGGAGCTTCTTCG 192
Db 118 CGTCTGAAAGGAGCGCTAATACCGCATACCGTCTACGGGAAAGCAGGGGA--CCTTC 175
QY 193 GAGCCTCCGCTATTAGATGAGCCCTGCGGTAGATTAGCTAGTTGTTGTAAGGTAAGGCTTA 252
Db 176 GGGCCCTTGGCTTATCAGATGAGCCCTAGGTTCGGAATAGCTAGTTGTTGAGGTAATGGCTCA 235
QY 253 CCAAGGCGACGATCTCTAACTGCTGAGAGGATGACCAAGTACCACTGGGACTGAGACAC 312

Db 236 CCAAGCGCAGCATCCGTAACTCGTCTGAGAGGATGATCAGTCACTTGGAACTGAGACAC 295
QY 313 GSCCCAGACTCCTACGCGAGGCGAGCAGTGGGGAAATATTGGACAAATGGGCGCAAGCTGAT 372
Db 296 GGTCCAGACTCCTACGCGAGGCGAGCAGTGGGGAAATATTGGACAAATGGGCGCAAGCTGAT 355
QY 373 CCAGCCATGCCCGCTGTGTGAAGAAGCGCTTAGGGTTGTAAAGCACTTTTCAGGGGTGAGG 432
Db 356 CCAGCCATGCCCGCTGTGTGAAGAAGCGCTTAGGGTTGTAAAGCACTTTTCAGGGGTGAGG 415
QY 433 AAGGTGATAGGTTAATACGTTATCATCTTGACGTTAGCCCCAGAAAGACACCGGCTAA 492
Db 416 AAGGCATTAACCTAATACGTTAGTGTTCGCGTTACCGACAGAATAGCACCGGCTAA 475
QY 493 CTCTGTGCCAGCAGCGCGGTAATACAGAGGCTGCAAGCTTAATCGGAAATTCCTGTGGCG 552
Db 476 CTCTGTGCCAGCAGCGCGGTAATACAGAGGCTGCAAGCTTAATCGGAAATTCCTGTGGCG 535
QY 553 TAAAGCGCGCTAGTGTGTTTAAAGTCGAGTGTGAATCCAGGGCTCAACCTTGGAA 612
Db 536 TAAAGCGCGCTAGTGTGTTTAAAGTCGAGTGTGAATCCAGGGCTCAACCTTGGAA 595
QY 613 TGGCACCCGATACTCGCTAGCTAGATGTTAGAGGGGTGTGGAATTCCTGTGTAGG 672
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QY 673 GTGAAATCGCTAGATATAGGAAGGAACATCAGTGGCGAAGCGCACACCTCGACTAAATAC 732
Db 656 GTGAAATCGCTAGATATAGGAAGGAACATCAGTGGCGAAGCGCACACCTCGACTGATAC 715
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Db 716 TGACACTGAGGTGCGAAAGCGTGGGGAGCAACACAGGATTAGATACCTCGTGTAGTCCAAG 775
QY 793 CGTAAACCATGCTACTAGTACCGTTGG--GTTGTTAATGACTTAGTGGCGCAGCTAACGCA 850
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QY 911 CCGCAACAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACCGGAAGAACCTTACCTACTC 970
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Db 1076 ACCCTTGTCTTTATTTACAGCAGCTAATGTTGGGCACTCTTAAGGAGACTGCCGGTGACA 1135
QY 1151 AACCGGAGGAGGTGGGACGACGCTCAAGTCAATCATGCGCCCTACGAGTAGGGCTACACA 1210
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QY 1211 CGTGCTCAATTCGGGCTATACAGAGGGCTGCAAGCTAGCGATAGTGAGCGAATCCACAAA 1270
Db 1196 CGTGCTCAATTCGGTACAGAGGGTTGCCAAGCCGGAGGTGAGCTAATCCACAAA 1255
QY 1271 GTAGTGTGTAGTCCGATTTGGAGTCTGCAACTCGACTCCATGAGTCCGAATTCGCTAGTA 1330
Db 1256 ACCGATCGTAGTCCGGATCGCAGTCTGCAACTCGACTCGTGGTGAAGTTCGCTAGTA 1315
QY 1331 ATCGTGAATCAGAAATGTCACCGTGAATACGTTCCGGGCTTGTACACACCCCGCTCAC 1390
Db 1316 ATCGGAATCAGAAATGTCGCGGTGAATACGTTCCGGGCTTGTACACACCCCGCTCAC 1375

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QY 433 AAGGTGATAGTAAATACGTTATCATCTTGACGTGTAGCCCGAAGAACACCGCTAA 492
Db 416 AAGGCATTAACCTAATAGTTAGTGTGTTTGAAGTTACGACAGATTAAGACCGGCTAA 475
QY 493 CTCTGTGCCAGCAGCGCGGTAATACAGAGGGTGAAGGCTTAATCGGAATTAATCTGGCG 552
Db 476 CTCTGTGCCAGCAGCGCGGTAATACAGAGGGTGAAGGCTTAATCGGAATTAATCTGGCG 535
QY 553 TAAAGCGCGTGTAGTGTGTTTGAAGTGGATGTGAATCCAGGGCTCAACCTGGAA 612
Db 536 TAAAGCGCGTGTAGTGTGTTTGAAGTGGATGTGAATCCAGGGCTCAACCTGGAA 595
QY 613 TGGCACCGATCTGCTAGCTAGTATGCTAGAGGGTGTGAATTTCTGTGTAGCG 672
Db 596 CTGCAATCAAACTGACAGCTAGATGATGGTAGAGGGTGTGAATTTCTGTGTAGCG 655
QY 673 GTGAATGCGTATATAGGAAGGAACATCACTGCGGAAGGCGACACCTGCACTAATAC 732
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QY 911 CGGCACAACGGTGGAGCATGTGTTTAAATTCGAGCAACGCGAAGAACTTACCTACTCTC 970
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Db 1076 ACCCTTGTCTTATTTGCGACGCTAATGCTGGGAATTTAAGGAGACTGCGCGGTGACA 1135
QY 1151 AACCGGAGGAGGTGGGACGAGCTCAAGTCAATCATGCGCCCTTACGAGTAGGGCTACACA 1210
Db 1136 AACCGGAGGAGGTGGGATGAGCTCAAGTCAATCATGCGCCCTTACGCGCTGGGCTACACA 1195
QY 1211 CGTGCTACAATGGCGGTATACAGAGGGTGAAGCTAGCGATAGTGAAGGATCCCAACAA 1270
Db 1196 CGTGCTACAATGGTGGTATACAGAGGGTGGCAAGCGCGAGGTGGAGCTAATCCCAACAA 1255
QY 1271 GTACGTGCTAGTCCGGAATGAGCTGCACTCGACTCCATGAAGTCCGAATCGTAGTA 1330
Db 1256 ACCGATTCGTAGTCCGGAATGAGCTGCACTCGACTCCGAGTGAAGTCCGAATCGTAGTA 1315
QY 1331 ATCGTGAATCAGAAATGTACGGTGAATPACGTTCCCGGGCTTGTACACACCGCCCGTAC 1390
Db 1316 ATCGGGAATCAGAAATGTCCGGTGAATPACGTTCCCGGGCTTGTACACACCGCCCGTAC 1375
QY 1391 ACCATGGAGTGAATGTCTCAGAGTGTAGCTTAACCTTCGGGGATGGCGGTACC 1450
Db 1376 ACCATGGAGTGGGTTGCACAGAGTGTAGCTTAACCTTCGGGGATGGCGGTACC 1433
QY 1451 ACCGAGTGGTCAATGACTGGGGTTGAAGTCTAC 1483
Db 1434 ACCGTTGATTCATGACTGGGGTGAAGTCTAC 1466
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RESULT 2

US-09-821-016-5

; Sequence 5, Application US/09821016

; Patent No., 6485951

; GENERAL INFORMATION:

; APPLICANT: CANON INC.

; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme

; FILE REFERENCE: 4051021

; CURRENT APPLICATION NUMBER: US/09/821,016

; CURRENT FILING DATE: 2001-03-30

; NUMBER OF SEQ ID NOS: 11

; SOFTWARE: Microsoft Word

; SEQ ID NO 5

; LENGTH: 1501

; TYPE: DNA

; ORGANISM: Pseudomonas jessenii p161 ; BP-7376

; FEATURE:

US-09-821-016-5

Query Match 76.1%; Score 1131; DB 4; Length 1501;

Best Local Similarity 88.2%; Pred. No. 0;

Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

QY 13 TGAACGCTGGCGGCGAGGCTTAAACACATGCAAGTCAGCGGTAAACAGGGGAGCTTGCTCC 72

Db 1 TGAACGCTGGCGGCGAGGCTTAAACACATGCAAGTCAGCGGTAAACAGGGGAGCTTGCTCC 58

QY 73 TCGTCAGCAGCGCGGCGAGGCTTAAACACATGCAAGTCAGCGGTAAACAGGGGAGCTTGCTCC 132

Db 59 TGAATTC-AGCGCGGCGAGGCTTAAACACATGCAAGTCAGCGGTAAACAGGGGAGCTTGCTCC 117

QY 133 CATGTGGAAACCATGCTTAATACCGCATACGCGCTAGGAATCTGCTAGTAGAGGGGACAA 192

Db 118 CGTCTCGAAAGGCGCATTAATACCGCATACGCTTACCGGGAAGAAAGCAGGGGA--CCTTC 175

QY 193 GAGCCTTCCGCTATTAGATGAGCGCTGCGTGAATAGCTAGTGTAGGTAAAGGCTTA 252

Db 176 GGGCCTTGGCTATCAGATGAGCTAGGTCGGAATAGCTAGTGTAGGTAAAGGCTTA 235

QY 253 CCAAGCGCAGCATCTTAACTGCTCTGAGAGGATGACAGTCACTTGGGAGCTGAGACAC 312

Db 236 CCAAGCGCAGCATCTTAACTGCTCTGAGAGGATGATGATGATGATGATGATGATGATGAT 295

QY 313 GGCACAGACTCTTACGCGGAGGCGAGTGGGGAATATTGGACAATGGGCGCAAGCTGAT 372

Db 296 GGTCCAGACTCTTACGCGGAGGCGAGTGGGGAATATTGGACAATGGGCGCAAGCTGAT 355

QY 373 CAGCCATCCGCGTGTGTAAGAGGCGCTTAGGGTTGTAAAGCACTTTTCAGGGGTGAGG 432

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QY 553 TAAAGCGCGTGTAGTGTGTTTGAAGTGGATGTGAATCCAGGGCTCAACCTTGGAA 612

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Db 716 TGACACTGAGTGGCGAAGCGTGGGAGCAACAGGATTAGATACCCCTGGTAGTCCACGC 775
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QY 1271 GTACGTCTGATGCGGATGCGGATGCGAATCGACTCAATGAGTCCGATCGCTAGTA 1330
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Db 1376 ACCATGGAGTGTGTCCTCAGAGTGTAGCTTAAACCTTCGGGATGCGGTTACC 1433
QY 1451 ACGGAGTGTCAATGACTGGGGTTCAGTCTAC 1483
Db 1434 ACGGTGTGATTCATGACTGGGGTGAAGTCTGATAC 1466

RESULT 3

US-09-745-476-1
; Sequence 1, Application US/09745476
; Patent No. 6521429
; GENERAL INFORMATION:
; APPLICANT: CANON INC.
; TITLE OF INVENTION: Preparation of Poly-hydroxyalkanoic Acid
; FILE REFERENCE: 4351008
; CURRENT APPLICATION NUMBER: US/09/745,476
; CURRENT FILING DATE: 2000-12-26
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: Microsoft Word
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; FERM P-17445
US-09-745-476-1

Query Match 76.1%; Score 1131; DB 4; Length 1501;
Best Local Similarity 88.2%; Pred. No. 0;
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

QY 13 TGAACGCTGGCGCAGGCTTAAACACATCAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC 72
Db 1 TGAACGCTGGCGCAGGCTTAAACACATCAAGTCGAGCGGTAAACAGGGAGCTTGTCTCC 58
QY 73 TGTGACGAGCGCGGACCGGTGAGTAAACGCGTAGGAATCTGCTAGTAGAGGGGACAA 132
Db 59 TGAATTC - AGCGCGGACCGGTGAGTAAACGCGTAGGAATCTGCTAGTAGAGGGGACAA 117
QY 133 CATGTGAAACCATGCTTAATACCGCATACGCCCTGAGGGGAAAGAGGGGACCTTCG 192
Db 118 CGTCTCGAAGGAGCGCTAATACCGCATACGCTCTACGGGAGAAAGACGGGA - CCTTC 175
QY 193 GAGCCTTCGCTATTAGATGAGCTCGCTGAGATAGCTAGCTAGCTAGCTAGCTAGCT 252
Db 176 GGGCCTTCGCTATTAGATGAGCTCGCTGAGATAGCTAGCTAGCTAGCTAGCTAGCT 235
QY 253 CCAAGCGCAGCATCTCTAATCTGAGAGGATGACCACTCAGTCACTGCGGACTGAGACAC 312
Db 236 CCAAGCGCAGCATCTCTAATCTGAGAGGATGATCAGTCACTGCGGACTGAGACAC 295
QY 313 GCGCCAGACTCTCTACGGGAGGACGAGTGGGAAATTTGGACAATGGGCGCAAGCTGAT 372
Db 296 GGTCCAGACTCTCTACGGGAGGACGAGTGGGAAATTTGGACAATGGGCGCAAGCTGAT 355
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QY 433 AAGGCTGATAGGTTAATACGTTATCATCTGACGTTAGCCCCAGAAAGACACCGCTTAA 492
Db 416 AAGGCTAATACCTAATACGTTAGTGTGTTGACGTTCCGACAGAAATAGCACCGCTTAA 475
QY 493 CTCTGTGCGAGGCGCGGTAAATACAGAGGTGCAACGTTAATTCGAAATTTACTGGGCG 552
Db 476 CTCTGTGCGAGGCGCGGTAAATACAGAGGTGCAACGTTAATTCGAAATTTACTGGGCG 535
QY 553 TAAAGCGCGGTAGTGTGTTTAAAGTCGATGTAATCCAGGGCTCAACCTTGAA 612
Db 536 TAAAGCGCGGTAGTGTGTTTAAAGTCGATGTAATCCAGGGCTCAACCTTGAA 595
QY 613 TGGCACCCGATPACTGGCTAGCTAGATGTTAGAGGGGTGTGGAATTTCTGTGTAGCG 672
Db 596 CTGCATTCAAACTGACAACTAGATGTTAGAGGGTGTGGAATTTCTGTGTAGCG 655
QY 673 GTGAAATGCGTAGATATAGGAAGAAATCAGTGGCGAAGCGCACACCTGGACTTAATAC 732
Db 656 GTGAAATGCGTAGATATAGGAAGAAATCAGTGGCGAAGCGCACACCTGGACTTAATAC 715
QY 733 TGACACTGAGTGGGAGGAGCAACAGGATTAGATACCTGCTAGTCCAGCG 792
Db 716 TGACACTGAGTGGGAGGAGCAACAGGATTAGATACCTGCTAGTCCAGCG 775
QY 793 CGTAAACGATGCTACTAGCGCTTGG - GTTGTAAATGACTTAGTGGCGCAGCTAACGCAA 850
Db 776 CGTAAACGATGCTCAACTAGCGCTTGGGAGCTTGGAGCTCTTAGTGGCGCAGCTAACGCA 835
QY 851 TAAAGTACCGCTGGGAGTACGCGCGAAGGTTAAAACTCAAAATGAATTTGACGGGGGC 910
Db 836 TAAAGTTGACCGCTGGGAGTACGCGCGCAAGGTTAAAACTCAAAATGAATTTGACGGGGGC 895
QY 911 CCGCACAAGCGGTGGAGCATGTTGTTAATTCGAAGCAACGCGAAGAACTTTACTCTACTC 970
Db 896 CCGCACAAGCGGTGGAGCATGTTGTTAATTCGAAGCAACGCGAAGAACTTTACTCTACTC 955
QY 971 TTGACATCCACAGAACTTTGAGAGATCAGATGGTGGCTTCGGGAACTGTGAGACAGGTG 1030
Db 956 TTGACATCCAAATGAATTTCCAGAGATGAGTGGTGGCTTCGGGAACTTTGAGACAGGTG 1015
QY 1031 CTGCATGGCTGCTCAGCTCGTGTGTAATGTTGGTTAAGTCCCGTAAACGAGCGCA 1090
Db 1016 CTGCATGGCTGCTCAGCTCGTGTGTAATGTTGGTTAAGTCCCGTAAACGAGCGCA 1075
QY 1091 ACCCTTGTCTTATTTGCGACGATTAATGTTGGTTAAGTCCCGTAAACGAGCGCA 1150

Db 1076 ACCCTTGCTTAGTTACAGACGTAATGTTGGCACTCTAAGAGACTGCGGTGACA 1135
Qy 1151 AACCGAGGAAGGTGGGACGACGTCAGTCAATCATATGCGCCCTTACGATAGGGCTACACA 1210
Db 1136 AACCGAGGAAGGTGGGATGACGTCAAGTCATCATATGCGCCCTTACGGCTTGGCTACACA 1195
Qy 1211 CGTGCTACATGCGGTATACAGAGGCTGCAAGCTGCAAGTATGAGATAGTGGGAAATCCACAAA 1270
Db 1196 CGTGCTACATGCGGTATACAGAGGCTGCAAGTATGAGATAGTGGGAAATCCACAAA 1255
Qy 1271 GTAAGTGTAGTCCGATTTGGAGTCTGCAACTCGACTCCATCAAGTTCGGAATCGCTAGTA 1330
Db 1256 ACCGATCGTAGTCCGATGCGAGTCTGCAACTCGACTCGGTGAGTTCGGAATCGCTAGTA 1315
Qy 1331 ATCGTGAATCAGAAATGTCAGGTGAAATGTCGCGGGCCCTTGTACACACCGCGCTAC 1390
Db 1316 ATCGGGAATCAGAAATGTCGCGGTGAAATGTCGCGGGCCCTTGTACACACCGCGCTAC 1375
Qy 1391 ACATGGGAGTTGATGCTCCAGAGTACGCTTAACTTCCGCGGATGCGGTTACC 1450
Db 1376 ACATGGGAGTTGATGCTCCAGAGTACGCTTAACTTCCGCGGATGCGGTTACC 1433
Qy 1451 ACGAGTGTCAATGACTCGGGTTGAAGTCTAC 1483
Db 1434 ACGTGTGATTCATGACTGGGTGAACTCGTAC 1466

RESULT 4
US-09-748-205-1
; Sequence 1, Application US/09748205
; Patent No. 6586562
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxyalkanoate its manufacturing method, and microorganism
; FILE REFERENCE: 4351009
; CURRENT APPLICATION NUMBER: US/09/748,205
; CURRENT FILING DATE: 2000-12-27
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-09-748-205-1

Query Match 76.1%; Score 1131; DB 4; Length 1501;
Best Local Similarity 88.2%; Pred. No. 0;
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;

Qy 13 TGAACGTGCGGACGCTTAAACACATGCAAGTCGAGCGGTAAACAGGGAGCTTGCTCC 72
Db 1 TGAACGTGCGGACGCTTAAACACATGCAAGTCGAGCGGTAAACAGGGAGCTTGCTCC 58
Qy 73 TGCTGACGAGCGGCGGACGCTTAAACACATGCAAGTCGAGCGGTAAACAGGGAGCTTGCTCC 132
Db 59 TGAATTC-AGCGGCGGACGCTTAAACACATGCAAGTCGAGCGGTAAACAGGGAGCTTGCTCC 117
Qy 133 CATGTGAAACGCTATGCTAAATACCGCATACGCTTGAAGGGGAAAGAGGGGACCTTCG 192
Db 118 GGTCTGAAAGGACGCTTAAATACCGCATACGCTTGAAGGGGAAAGAGGGGACCTTCG 175
Qy 193 GAGGCTTCGCTATAGATGAGCTGCTGAGATAGCTAGTTCGTTAGGGTAAAGGCTA 252
Db 176 GGGCTTCGCTATAGATGAGCTGCTGAGATAGCTAGTTCGTTAGGGTAAAGGCTA 235
Qy 253 CCAAGGCGACGATCTCTAACTGCTCTGAGAGGATGACAGCTCACCTGGGCTGAGACAC 312
Db 236 CCAAGGCGACGATCTCTAACTGCTCTGAGAGGATGACAGCTCACCTGGGCTGAGACAC 295
Qy 313 GGCCACAGCTCTCTAGGAGGACGAGTGGGGAATATTTGGACATGGGCGCAAGCTGAT 372
Db 296 GGTCCAGACTCTCTAGGAGGACGAGTGGGGAATATTTGGACATGGGCGCAAGCTGAT 355

Qy 373 CCAGCCATGCGCGCTGTGTGTAAGAGGCTTAAAGGCTTAAAGCACTTTTCAAGGGGTGAGG 432
Db 356 CCAGCCATGCGCGCTGTGTGTAAGAGGCTTAAAGGCTTAAAGCACTTTTCAAGGGGTGAGG 415
Qy 433 AAGGTGATAGGTGTAATACGTTATCATCTTGACGTTAGCCCGCAGAGGACACCGGCTAA 492
Db 416 AAGGCAATTAACCTAATACGTTAGTGTGTTGACGTTAGCCGACAGAAATAGACACCGGCTAA 475
Qy 493 CTCTGTGCGCAGCAGCGCGGTAAATACAGAGGCTGCAAGCTTAAATCGGAAATTTACTGGCG 552
Db 476 CTCTGTGCGCAGCAGCGCGGTAAATACAGAGGCTGCAAGCTTAAATCGGAAATTTACTGGCG 535
Qy 553 TAAAGCGCGCTGAGTGGTGTGTTAAAGTCGGAATGCAATCCAGGGCTCAACCTTGGAA 612
Db 536 TAAAGCGCGCTGAGTGGTGTGTTAAAGTCGGAATGCAATCCAGGGCTCAACCTTGGAA 595
Qy 613 TGCGACCCGATCTGCTAGCTAGTATGTTAGAGGGGTGGAATTTCTGTGTAGCG 672
Db 596 CTGCAATCAAACTGCAAGCTAGATGTTAGAGGGGTGTTGGAATTTCTGTGTAGCG 655
Qy 673 GTGAAATGCTAGATATAGGAAGGAAACATCAGTGGCGAAGCGCACACCTTGGACTAATAC 732
Db 656 GTGAAATGCTAGATATAGGAAGGAAACATCAGTGGCGAAGCGCACACCTTGGACTAATAC 715
Qy 733 TGACACTGAGGTGCGAAAGCGTGGGAGCAAAACAGGATTAGATATACCTGTGTAGTCCACGC 792
Db 716 TGACACTGAGGTGCGAAAGCGTGGGAGCAAAACAGGATTAGATATACCTGTGTAGTCCACGC 775
Qy 793 CGTAAACGATGCTTACTAGCGCTTG- -GTTGTAATGACTTAGTGGCGCAGCTTAAACGCAA 850
Db 776 CGTAAACGATGCTTACTAGCGCTTGAGCGCTTTAGTGGCGCAGCTTAAACGCAAT 835
Qy 851 TAAAGTAGACCGCTGGGAGTACGCGCGCAAGGTTAAAACTCAAATGAAATGACGGGGC 910
Db 836 TAAAGTAGACCGCTGGGAGTACGCGCGCAAGGTTAAAACTCAAATGAAATGACGGGGC 895
Qy 911 CGCACAAAGCGGTGGAGCATGTGTTTAAATTCGAAAGCAACGCAAGCACTTACCTACTC 970
Db 896 CGCACAAAGCGGTGGAGCATGTGTTTAAATTCGAAAGCAACGCAAGCACTTACCTAGGCGC 955
Qy 971 TTGACATCCACAGAACATTTGAGAGATCAGATGCTGCTTCCGGGAACTGTGAGACAGGTG 1030
Db 956 TTGACATCCAAATGAACTTCCAGAGATGGAATGGTGTGCTTCCGGGAACTGTGAGACAGGTG 1015
Qy 1031 CTGCATGGCTGTCTGTCAGGCTCGTGTGTAATGTTGGGTTAAAGTCCCGTAAACGAGCGCA 1090
Db 1016 CTGCATGGCTGTCTGTCAGGCTCGTGTGAGATGTTGGGTTAAAGTCCCGTAAACGAGCGCA 1075
Qy 1091 ACCCTTGTCTTATTTGCGACGACGTAATGGTGGGAACTTTAAGGAGACTGCGCGTGACA 1150
Db 1076 ACCCTTGTCTTATTTGCGACGACGTAATGGTGGGAACTTTAAGGAGACTGCGCGTGACA 1135
Qy 1151 AACCGGAGGAGGTGGGAGCGCTCAAGTCATATGCGCCCTTACGAGTAGGGCTACACA 1210
Db 1136 AACCGGAGGAGGTGGGAGCGCTCAAGTCATATGCGCCCTTACGCGCTGGGCTACACA 1195
Qy 1211 CGTGCTACAAATGCGGTATACAGAGGGCTGCAAGCTAGCGATAGTGAAGCGAATCCCAAAA 1270
Db 1196 CGTGCTACAAATGCGGTATACAGAGGGCTGCAAGCGCGAGGTGGAGCTAATCCCAAAA 1255
Qy 1271 GTAAGTGTAGTCCGGAATGAGTCTGCAAACTGACTCCTCAATGAGTGGGATCGCTAGTA 1330
Db 1256 ACCGATCGTAGTCCGGAATGAGTCTGCAAACTGACTCCTCAATGAGTGGGATCGCTAGTA 1315
Qy 1331 ATCGTGAATCAGAAATGTCAGGTGAAATACGTTCCCGGGCCCTTGTACACACCGCGGCTCAC 1390
Db 1316 ATCGGGAATCAGAAATGTCAGGTGAAATACGTTCCCGGGCCCTTGTACACACCGCGGCTCAC 1375
Qy 1391 ACCATGGAGTGTGATGCTCCAGAAAGTGTAGCTTAAACCTTCCGGGATGGCGGTTACC 1450
Db 1376 ACCATGGAGTGTGATGCTCCAGAAAGTGTAGCTTAAACCTTCCGGGATGGCGGTTACC 1433

QY 1451 ACGAGTGTCAATGACTGGGTTGAAGTCTAC 1483
DB 1434 ACGGTGTGATTCATGACTGGGTGAAGTCTAC 1466

RESULT 5

US-09-951-720-1
; Sequence 1, Application US/09951720
; Patent No. 6635782
; GENERAL INFORMATION:
; APPLICANT: Canon Kabushiki Kaisha
; TITLE OF INVENTION: Polyhydroxyalkanoate and Manufacturing Method Thereof
; FILE REFERENCE: 4477001
; CURRENT APPLICATION NUMBER: US/09/951,720
; CURRENT FILING DATE: 2000-09-14
; PRIOR APPLICATION NUMBER: JP 279900/2000
; JP 378827/2000
; JP 165238/2001
; JP 165509/2001
; JP 275063/2001
; PRIOR FILING DATE: 2000-09-14
; 2000-12-13
; 2001-05-31
; 2001-05-31
; 2001-09-11
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 strain.
US-09-951-720-1

Query Match
Best Local Similarity 76.1%; Score 1131; DB 4; Length 1501;
Matches 1299; Conservative 0; Mismatches 165; Indels 9; Gaps 6;
QY 13 TGAAGCTGGCGGAGGCTTAAACACATGCAAGTCGAGCGTAACAGGGAGCTTGCTCC 72
DB 1 TGAAGCTGGCGGAGGCTTAAACACATGCAAGTCGAGCGG-ATGACGGAGCTTGCTCC 58
QY 73 TGCTGACGAGCGGCGGAGGCTGAGTAAACACATGCAAGTCGAGCGTAACAGGGAGGCA 132
DB 59 TGAATTC-ACGCGGAGGCTGAGTAAACACATGCAAGTCGAGCGG-ATGACGGAGCTTGCTCC 117
QY 133 CATGTGAAACGCGATGCTAATACCGCATACCGCTGAGGGGAAAGAGGGAGCTCTTCG 192
DB 118 CGTCTGAAAGGAGCGCTAATACCGCATACCGCTGAGGGGAAAGAGGGAG--CCTTC 175
QY 193 GAGCCTTCGCTATTAGATGAGCCTCGGTGAGTATGCTAGTTGGTAAAGGCTTA 252
DB 176 GGGCTTTCGCTATTAGATGAGCCTCGGTGAGTATGCTAGTTGGTAAAGGCTTA 235
QY 253 CCAAGCGAGCGATCTCTAATCTGCTCAGAGGATGACAGTCACTGAGGCTGAGACAC 312
DB 236 CCAAGCGAGCGATCTCTAATCTGCTCAGAGGATGACAGTCACTGAGGCTGAGACAC 295
QY 313 GGCCCGAGCTCTCTAAGGAGCGAGCTGAGGAGTATGAGCAATGAGGAGGAGCTGAT 372
DB 296 GGTCCAGACTCTCTAAGGAGCGAGCTGAGGAGTATGAGCAATGAGGAGGAGCTGAT 355
QY 373 CAGGCAATCGCGGTGTGTGAAGAGCCTTAAGGCTTTTAAAGCACTTTTAAAGTGGAGG 432
DB 356 CAGGCAATCGCGGTGTGTGAAGAGCCTTTAAAGCACTTTTAAAGTGGAGG 415
QY 433 AAGGCTGATAGTTAATACCTTATCTTGAAGTGGAGGAGGAGGAGGAGGAGGAGGAGG 492
DB 416 AAGGCAATTAACCTAATACCTTATCTTGAAGTGGAGGAGGAGGAGGAGGAGGAGG 475
QY 493 CTCTGTCCAGAGCGCGGTGATACAGAGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGG 552
DB 476 CTCTGTCCAGAGCGCGGTGATACAGAGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGG 535
QY 553 TAAAGCGCGGTAGGTGTTTAAAGTGGAGTGTGAAGTGTGAAGTGTGAAGTGTGAAGT 612

DB 536 TAAAGCGCGGTAGGTGTTTAAAGTGGAGTGTGAAGTGGAGTGTGAAGTGGAGTGTGAAG 595
QY 613 TGGCACCCGATCTGGCTAGCTAGATGATGGTAGAGGGGTGGAGTATTCCTGTGTAGCG 672
DB 596 CTGCATTCAAACTGACAGCTAGATGATGGTAGAGGGGTGGAGTATTCCTGTGTAGCG 655
QY 673 GTGAATGCGTATAGTATAGGAAGCAATCATGCTGGGAGGAGGAGGAGGAGGAGGAGGAGG 732
DB 656 GTGAATGCGTATAGTATAGGAAGCAATCATGCTGGGAGGAGGAGGAGGAGGAGGAGGAGG 715
QY 733 TGACACTGAGGTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 792
DB 716 TGACACTGAGGTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 775
QY 793 CGTAAACGATGCTACTAGCCGTTGG--GTTCTAATGACTTGTAGTGGCGCAGCTACGGCA 850
DB 776 CGTAAACGATGCTACTAGCCGTTGGAGGCTTGTAGTGGCGCAGCTACGGCA 835
QY 851 TAAAGTAGCCGCTGGGAGTACGGCCGAAAGTTAAACTCAAAATGAATTCACCGGGGC 910
DB 836 TAAAGTTGACCGCTGGGAGTACGGCCGAAAGTTAAACTCAAAATGAATTCACCGGGGC 895
QY 911 CGCACAAAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACGCGAGGAGGAGGAGGAGGAGG 970
DB 896 CGCACAAAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACGCGAGGAGGAGGAGGAGGAGG 955
QY 971 TTGACATCCACAGAACATTTTGAGAGATCAGATGTTGCTTCGGGAACTGTGAGCAGGTG 1030
DB 956 TTGACATCCAAATGAATTTCCAGAGATGATGTTGCTTCGGGAACTGTGAGCAGGTG 1015
QY 1031 CTGATGCTGCTGCTAGCTCGTGTGTTGAAATGTTGGTTAAAGTCCCGTAAACGAGCGCA 1090
DB 1016 CTGATGCTGCTGCTAGCTCGTGTGTTGAAATGTTGGTTAAAGTCCCGTAAACGAGCGCA 1075
QY 1091 ACCCTTGTCTTATTTGCCAGCAGTAAATGTTGGGAACTTTAAGAGAGCTCCCGGTGACA 1150
DB 1076 ACCCTTGTCTTATTTGCCAGCAGTAAATGTTGGGAACTTTAAGAGAGCTCCCGGTGACA 1135
QY 1151 AACCGAGGAGGTGGGAGCGACGTCAGTCAATCATGCGCTTACGAGTAGGCTGAGTACACA 1210
DB 1136 AACCGAGGAGGTGGGAGCGACGTCAGTCAATCATGCGCTTACGAGTAGGCTGAGTACACA 1195
QY 1211 CGTCTCAATGCGGTATACAGAGGCTGCAAGCTAGCTAGTGTGAGGAGTCCCAAAA 1270
DB 1196 CGTCTCAATGCGGTATACAGAGGCTGCAAGCTAGCTAGTGTGAGGAGTCCCAAAA 1255
QY 1271 GTAGCTGATGCTCGGATTCGAGTCTGCAACTGAGTCAATGAGTGGAGTCCGTAGTA 1330
DB 1256 ACCGATGATGCTCGGATTCGAGTCTGCAACTGAGTCAATGAGTGGAGTCCGTAGTA 1315
QY 1331 ATCTGATGATGATGCTGCTCCAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1390
DB 1316 ATCTGATGATGATGCTGCTCCAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1375
QY 1391 ACCATGAGTGTGATGCTCCAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1450
DB 1376 ACCATGAGTGTGATGCTCCAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 1433
QY 1451 ACCGAGTGTGATGATGCTGGGTTGAAGTCTAC 1483
DB 1434 ACGGTGTGATTCATGACTGGGTTGAAGTCTAC 1466

RESULT 6

US-10-411-319-1
; Sequence 1, Application US/10411319
; Patent No. 6649381
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxynate, Method For Production Thereof And Microorganisms
; TITLE OF INVENTION: In The Same
; FILE REFERENCE: 03500.015001.1

[illegible]

```

/ REFERENCE/DOCKET NUMBER: 600.268US1
/
/ TELECOMMUNICATION INFORMATION:
/
/ TELEPHONE: 612-339-0331
/
/ TELEFAX: 612-339-3061
/
/ INFORMATION FOR SEQ ID NO: 6:
/
/ SEQUENCE CHARACTERISTICS:
/
/ LENGTH: 1518 base pairs
/
/ TYPE: nucleic acid
/
/ STRANDEDNESS: single
/
/ TOPOLOGY: linear
/
/ MOLECULE TYPE: rRNA
/
/ ORIGINAL SOURCE:
/
/ ORGANISM: Pseudomonas aeruginosa
US-08-114-695A-6

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Query Match 74.7%; Score 1109.4; DB 1; Length 1518;

Matches	1023;	Conservative	258;	Mismatches	192;	Indels	9;	Gaps	6;
QY	3	TAGCTCAGATTGAACGCTGCGCGCAGGCTTAAACACATGCAAGTCGAGCGGTAACAGGGG	62						
Db	20	UGGCUGCAUGUAAGACGCGUGCGCAGNGCCUACACACUGCAAGUCGAGCGG-AUGAAGGG	78						
QY	63	AGCTTGCTCTGCTGACGAGCGGCGGACGGGTGAGTAAACGGGTAGGAATCTGCTTAGTAG	122						
Db	79	AGCUUGUCUCCUGGAUUC-AGCGCGCGAGCGGUGAGUAAUGCCUAGGAUACUGCCUGAUG	137						
QY	123	AGGGGGACAACTATGTGGAACCGCATGTCTAATACCGCATAGCCCTGAGGGGGGAAGAGG	182						
Db	138	UGGGGGAUACGTCGCGAAGACGGCGCUAUUACCGCAUACUCCUGAGGGAGAAAGGGGG	197						
QY	183	GGACTCTTCGAGGCTTCGCTATTAGATGAGCTGGGTGAGATTAGCTAGTTGGTAGGG	242						
Db	198	GGAUCCU--CGGACUCCAGCUAUCNGAUGAGCCUAGGUCGGAUUAUCUAGUUGGUGGG	255						
QY	243	TAAAGGCTACCAAGCGGAGGATCTCTAACTGGTCTGAGAGATGACCGATCACACTGGG	302						
Db	256	UAAAGGCCUACCAAGGCGAGCAUCCGCUUACUGGUCUGAGGAGCGAUCAGTCAACUGGA	315						
QY	303	ACTGAGACACGGCCCGACACTCTTACGGGAGCGCAGCAGTGGGGGAATATTGACAAATCGGC	362						
Db	316	ACUGAGACACGGUCCAGACUCCUACGGGAGCGACAGUGGGGGAUUAUUGGACAAUGGGCG	375						
QY	363	CAGAGCTGATCCAGCCATGCCGCTGTGTGAAGAAGCCCTTAGGGTTGTTAAAGCACTTTC	422						
Db	376	AAAGCCNGAUCCAGCCCAUGCGGUGUGCAAGAAGGUCUUCGGAUUGUAAAGCACUUA	435						
QY	423	AGGGGTGAGCAAGGGTCATAGGTTAATACGTTATCATCTTGACGTTAGCCCCAGAGAAG	482						
Db	436	AGUUGGAGGAGGGCAGUAAGUUUAUACCUUGCUUUUUGACUGUUAACCAACAGAAUAA	495						
QY	483	CACCGGCTAAGCTGTGCCACGACCGCGGTAAATACAGAGGGTGCAAGGCTTAATCGGA	542						
Db	496	CACCGCUAACUUGUGCGCAGCAGCCGCGUAUAACGAGGUGCGAGCGUUUAUUCGGA	555						
QY	543	TTACTGGCGTAAAGCGCGGTAGGTGGTTTGTAAAGTCGAGTGAATATCCAGGGCTC	602						
Db	556	UUAUCGGGCGUAAAGCGCGUAGGUGUUAACCAAGUUGAUGUAAAUCCCGGGCUC	615						
QY	603	AACCTTGGGAATGCACCCGATCTGCGTACGTAGATGTTAGAGGGGTGTGGAAATTC	662						
Db	616	AACUUGGGAACUGCAUCCNAAACUACUGAGCUAGUACGUGAGGGUGGUGGAUUUC	675						
QY	663	CTGTGTAGCGGTGAAATGCGGTAGATATAGGAAGAAACATCAGTGGCGAAGGGCGACACCT	722						
Db	676	CUGUAGCGGUAUAUGCGUAUAUAGGAAGAAACACAGUGGCGAAGGGCGACACCU	735						
QY	723	GGACTTAATCTGACATGAGGTCGAAAACGCTGGGAGCAAAACAGGATTAGATACCTGG	782						
Db	736	GGACUGAUAACUGACACUGAGGUGCGAAAGCGUGGGAGCAAAACAGUAUAGUACCCUG	795						
QY	783	TAGTCCACCGGTAAACGATGCTACTAGCCGTTGGGTT--GTAATGATCTTAGTGCGCA	840						

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RESULT 8
US-09-726-774-3
; Sequence 3, Application US/09726774
; Patent No. 6677153
; GENERAL INVENTION:
; APPLICANT: Iversen, Patrick L.
; TITLE OF INVENTION: Antisense Antibacterial Method and
; TITLE OF INVENTION: Composition
; FILE REFERENCE: 0450-0032_30
; CURRENT APPLICATION NUMBER: US/09/726,774
; CURRENT FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: US 60/168,150
; PRIOR FILING DATE: 1999-11-29
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1467
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-726-774-3

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Query Match	74.0%;	Score 1100.2;	DB 4;	Length 1467;
Best Local Similarity	88.2%;	Pred. No. 0;		

Qy 81 AGGGCGGACGGGTGAGTAACGGGTAGGAATCTGCCTAGTAGAGGGGCAACAACATGTGGA 140

Db 358 GCGAAGCTGATGACGACCATCCGCGTGTATGAAGAGCGCTTCGGGTGTAAAGTACT 417
Qy
Db 420 TTCAGGGGTGAGGAAGGGGTGATAGGTAAATAGTTATCATCTTGAGTTAGCCCCAGAG 479
Db 418 TTCAGCGGGAGGAGGAGTAAAGTTAATACCTTTGCTCATGTAGCTTACCGCGAGAAG 477
Qy 480 AAGCACCAGGCTAACTCTGTGCCAGACCGCGCGTAAATACAGAGGGTGCAGAGGTTAAATCG 539
Db 478 AAGCACCAGGCTAACTCCGTGCCAGACCGCGCGTAAATACAGAGGGTGCAGAGGTTAAATCG 537
Qy 540 GAAATTACTGGCGTAAAGCGCGCTAGGTGTTTGTAAAGTCCGATGTGAATCCAGGG 599
Db 538 GAAATTACTGGCGTAAAGCGCGCTAGGTGTTTGTAAAGTCCGATGTGAATCCAGGG 597
Qy 600 CTCACCTTGGAAATGGCACCAGTACTGCTAGCTAGTATGATGAGGGGTGAGGAT 659
Db 598 CTCACCTTGGAAATGGCACCAGTACTGCTAGCTAGTATGATGAGGGGTGAGGAT 657
Qy 660 TTCCTGTGTAGCGTGAATCGTATAGTATATAGGAAGGAACATCAGTGGCGAAGCGAC 719
Db 658 TCCAGGTGTAGCGTGAATCGTATAGTATCTGAGAGGAATACCGTGGCGAAGCGGCC 717
Qy 720 CCTGCACTAATACCTGACACTGAGGTGCGAAGCGTGGGGAGCAACAGGATTAGATACC 779
Db 718 CCTGCACTAATACCTGACACTGAGGTGCGAAGCGTGGGGAGCAACAGGATTAGATACC 777
Qy 780 TGTAGTCCAGCGCGTAAACCATGTCTACTAGCGG--TTGGGTTCTATGACTTAGTGGC 837
Db 778 TGTAGTCCAGCGCGTAAACCATGTCTACTAGCGG--TTGGGTTCTATGACTTAGTGGC 837
Qy 838 GCAGCTAACCGAATAGTATGACCGCTGGGGAGTACCGCGCAAGGTTAAACCTCAAATG 897
Db 838 GGAGCTAACCGGTTAAGTTCGACCGCTGGGGAGTACCGCGCAAGGTTAAACCTCAAATG 897
Qy 898 AATTGACGGGGCGCGCACAGCGGTGGAGCATGTGTTTAAATTCGAAGCAACCGCAAGA 957
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Qy 958 ACCTTACTACTCTTGATCATCCAGAACATTTTCAAGAGATCAGATGGTCCCTCGGGAAC 1017
Db 958 ACCTTACTCTTGATCATCCAGAACATTTTCAAGAGATCAGATGGTCCCTCGGGAAC 1017
Qy 1018 TGTGAGACAGGTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1077
Db 1018 TGTGAGACAGGTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1077
Qy 1078 CGTAAACGAGCGCAACCTTCTCTTATTTTCCAGCACGTAATGTTGGGAACCTTTAAGGAG 1137
Db 1078 CGCAACGAGCGCAACCTTCTCTTATTTTCCAGCACGTAATGTTGGGAACCTTTAAGGAG 1136
Qy 1138 ACTGCCGGTGACAAACCGGAGGAGGTGGGGAGCGACGTCAAGTCAATCATGCGCTTACGA 1197
Db 1137 ACTGCCAGTGATAAATCGGAGGAGGTGGGGAGCGACGTCAAGTCAATCATGCGCTTACGA 1196
Qy 1198 GTAGGGCTACACGCTGTCAATAGCGGTATACAGAGGGGTGCAAGCTAGCGATAGTAG 1257
Db 1197 CCAGGGCTACACGCTGTCAATAGCGGTATACAGAGGGGTGCAAGCTAGCGATAGTAG 1256
Qy 1258 CGAATCCCAAGTACGTGCTAGTCCGATTTGGAGTGTGCAATCTGCACTCCATGAAGTC 1317
Db 1257 CGAATCCCAAGTACGTGCTAGTCCGATTTGGAGTGTGCAATCTGCACTCCATGAAGTC 1316
Qy 1318 GGAATCGCTAGTAAATCGTGAATCAGAAATGTCAGGTGAATACGTTCCCGGGCTTGTACA 1377
Db 1317 GGAATCGCTAGTAAATCGTGAATCAGAAATGTCAGGTGAATACGTTCCCGGGCTTGTACA 1376
Qy 1378 CACCGCCGTACACCATCGGAGTTGATTTGCTCCAGAGTGTAGTCTTAAACCTTCGGG 1437
Db 1377 CACCGCCGTACACCATCGGAGTTGATTTGCTCCAGAGTGTAGTCTTAAACCTTCGGG 1437
Qy 1438 GATGGCGGTACACCGAGTGGTCAATGACTGGGT 1473

Db 1435 GAGGGCGCTTACCACCTTGTGATTATCATGACTGGGGT 1470

RESULT 10
US-09-726-774-4
; Sequence 4, Application US/09726774
; Patent No. 667153
; GENERAL INFORMATION:
; APPLICANT: Iversen, Patrick L.
; TITLE OF INVENTION: Antisense Antibacterial Method and
; FILE OF INVENTION: Composition
; FILE REFERENCE: 0450-0032.30
; CURRENT APPLICATION NUMBER: US/09/726,774
; CURRENT FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: US 60/168,150
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1500
; TYPE: DNA
; ORGANISM: Vibrio cholera
US-09-726-774-4

Query Match 71.7%; Score 1065.4; DB 4; Length 1500;
Best Local Similarity 84.9%; Pred. No. 0;
Matches 1249; Conservative 4; Mismatches 205; Indels 13; Gaps 5;

Qy 11 ATTGAACGCTGCGCGCAGGCTTAAACACATCATGCAAGTGCAGCGGTAAACAGGGGAGCTTCT 70
Db 1 ATTGAACGCTGCGCGCAGGCTTAAACACATCATGCAAGTGCAGCGGTAAACATTTCAAAGCTT 59
Qy 71 CCT-----GCTGACGAGCGCGGACCGGTGAGTAAACCGCTAGCAATCTGCTAGTAGAG 124
Db 60 GCTTTTCAAGATGACGAGCGCGGAGTAAATGGCTGGGAACTTGCCTGACGTG 119
Qy 125 GGGGACAACTGTGGAACGACATCTTAATACCGCATACGCCCTGAGGGGGAAGAGGGG 184
Db 120 GGGGATTAACAGTTGGAAACGACCTGCTAATACCGCATGATGTTTACGGACCAAGAGGGG 179
Qy 185 ACTCTCGAGCGCTTCCGCTATTAGATGAGCTGCGTGAGATTAGTGTAGTGGTAGGTA 244
Db 180 A--TYTTCGACATYTCGCTCGGATGGCCCGAGTTGGGATAGCTAGTGTGGTAGGTA 237
Qy 245 AAGGCTTACCAAGCGGACGATCTTAAGTCTGAGAGGATGACCACTGACCTGGGAC 304
Db 238 ATGGCTCACCAAGCGGACGATCCCTAGCTGTTGAGAGGATGATCAGCCACTGGAAC 297
Qy 305 TGAGACACGCCCGACACTCTTACGGAGGCGAGCAGTGGGGAATATTGGCAATGGGGCGCA 364
Db 298 TGAGACACGCTCCAGACTCTTACGGAGGCGAGCAGTGGGGAATATTGGCAATGGGGCGCA 357
Qy 365 AGCCTGATCCAGCCATGCGCGCTGTGTGAAGAGGCTTAGGGTTGTAAAGCACTTTCAG 424
Db 358 AGCCTGATCCAGCCATGCGCGCTGTGTGAAGAGGCTTAGGGTTGTAAAGCACTTTCAG 417
Qy 425 GGTGTAGGAAGGTGATGATTAATACGTTATCATCTTGACGTTAGCCCCAGGAAGCA 484
Db 418 CAGTGAAGGAAGTTGGTGGCTTAATAGCGTATCAATTTGACGTTAGCTGCAGGAAGCA 477
Qy 485 CCGGCTAACTCTGCGCAGCAGCGCGGTAAATACAGAGGGTGAACGGTTAATCGGAAT 544
Db 478 CCGGCTAACTCTGCGCAGCAGCGCGGTAAATACAGAGGGTGAACGGTTAATCGGAAT 537
Qy 545 ACTGGCGGTAAAGCGCGCTAGTGTGTTTAAAGTCGATGTGAATCCAGGGCTCAA 604
Db 538 ACTGGCGGTAAAGCGCATGCGAGCGGTGTTTAAAGCAAGATGTGAAGCCCCGGGCTCAA 597
Qy 605 CTTTGAATGGCACCCGATCTAGCTAGCTAGTATGTTAGAGGGGTGTGAATTTCT 664
Db 598 CTTGGGAACCGCATTTTGAATCTGGCAGGCTAGAGTCTTGTAGAGGGGTGTGAATTTCTAG 657
Qy 665 GTGTAGCGGTGAATGCGGTAGATATAGGAAGGAACATCAGTGGCGAAGCGCACCTGG 724


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1 ZIP: 94104
2 COMPUTER READABLE FORM:
3 MEDIUM TYPE: Floppy disk
4 COMPUTER: IBM PC compatible
5 OPERATING SYSTEM: PC-DOS/MS-DOS
6 SOFTWARE: PatentIn Release #1.0, Version #1.30
7 CURRENT APPLICATION DATA:
8 APPLICATION NUMBER: US/08/757,653
9 FILING DATE:
10 CLASSIFICATION: 435
11 ATTORNEY/AGENT INFORMATION:
12 NAME: Ingolia, Diane E.
13 REGISTRATION NUMBER: 40,027
14 REFERENCE/DOCKET NUMBER: FORS-025665
15 TELECOMMUNICATION INFORMATION:
16 TELEPHONE: (415) 705-8410
17 TELEFAX: (415) 397-8338
18 INFORMATION FOR SEQ ID NO: 158:
19 SEQUENCE CHARACTERISTICS:
20 LENGTH: 1542 base pairs
21 TYPE: nucleic acid
22 STRANDEDNESS: double
23 TOPOLOGY: linear
24 MOLECULE TYPE: DNA (genomic)
25 US-08-757-653-158
26
27 Query Match 71.6%; Score 1064.6; DB 2; Length 1542;
28 Best Local Similarity 85.7%; Pred. No. 0;
29 Matches 1266; Conservative 0; Mismatches 199; Indels 12; Gaps 7;
30
31 QY      3   TAGCTCAGATTGAACGCTGGCGGCAGGCTTAAACATCATCAACTCCAGTCGTGAGTAACGCCGTAGGAAATCTCGCTA    118
32 Db      20   TGGCTCAGATTGAACGCTGGCGGCAGGCT-AACATCATCAACTCCAGTCGTGAGTAATGTCTGGGAAACTGCTG       138
33
34 QY      61   GGAGCTTGCTCC--TGCTCACGAGCGCGCGAGTAGTAAACGCGGTGAGTAACGCCGTAGGAAATCTCGCTA    118
35 Db      79   GAAGCTTTGCTTCTTTTGCTGACGAGTGGCGGACGCGGTGAGTAATGTCTGGGAAACTGCTG       138
36
37 QY     119   GTAGAGGGGGACAACATATGTGGAAAACGATGCTTAATACCCTAACATCCGGATACGCCCTTGAGGGGGAAAG    178
38 Db    139   ATGAGGGGGATAACTACTCTGGAAAACGCTAGCTAATACCCTAATACGCTTCGCAAGCAAAG        198
39
40 QY     179   GAGGGAGCTCTTCGGAGGCGCTTCGGCTATTAGATGAGCTGCGTGAGATTAGCTAGTTGGT            238
41 Db    199   AGGGGGA--CCITTCGGGCGCTTTGGCCATCGATGTGCCNAGTGGATTAGCTAGTAGGT           256
42
43 QY     239   AGGCTAAAGSCCTACCAAGGCGCAGATCTCTAACTGGTCTTGAGAGGATGACCAAGTCAC          298
44 Db    257   GGGGTAAAGCCTCACCTAGGCGCAGATCCCTAGCTGCTGAGAGGATGCCAGCCAAC         316
45
46 QY     299   TGSGACTGAGACACGGGCCAGACTCTCTACGGGAGGACAGTGGGGAATATGGACAATG             358
47 Db    317   TCGAACTGAGACACGGGTCCAGACTCCTACGGGAGGCGACAGTGGGGAATATTTGCACAATG       376
48
49 QY     359   GGCGCAAGCTGTATCCAGCCATCGCGGTGTGTGAAGAAGGCCCTTAGGGTTGTAAAGCAAC        418
50 Db    377   GGGCGAAGCCTGATTCAGCCATGCGCGGTGTATGAAGAAGGCCCTTCGGGTTGTAAAGTAC       436
51
52 QY     419   TTTTCAGGGGTGAGGAAGGGGTGATAGGTTATAACGTTATCATCTTTGAAGCTTTAGCCCCAGAA       478
53 Db    437   TTTCAGCGGGGAGGAAGGAGTAAAGTTAATACCTTTTGCTCATTTGAGCTTACCCGCGAA        496
54
55 QY     479   GAAGCACCGGCTAACTCTGTGCCAGACGCGCGTAAATACAGAGGGTGCAGCGCTTAATC          538
56 Db    497   GAAGCACCGGCTAACTCCGTGCCAGACGCGCGTAAATACGAGGGTGCAGCGCTTAATC          556
57
58 QY     539   GGAATTACTTGGCGGTAAAGCGCGGTAGGTGGTTTTGTGTTAACTCGGATGTGAAATCCCAGG         598
59 Db    557   GGAATTACTTGGCGGTAAAGCGCAACGCGCGGTTTTGTGTTAAATGTCAGATGTGAAATCCCAGG       616
60
61 QY     599   GCTCAACCTTTGGAATGGCACCCGNATCTGCTAGCTAGAGTATGCTAGAGGGGTCTGCAA          658
62 Db    617   GCTCAACCTGCGAATCGATCTGATCTGATCTGACGCGTCTGATGAGGGGCTAGNA              676

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SEQUENCE LIST	
SEQUENCE 158, Application US/08757653	
Patent No. 5843669	
GENERAL INFORMATION:	
APPLICANT: Kaiser, Michael W.	
APPLICANT: Lyamichev, Victor I.	
APPLICANT: Lyamichev, Natasha	
TITLE OF INVENTION: Cleavage Of Nucleic Acid Using	
TITLE OF INVENTION: Thermostable FEN-1 Endonucleases	
NUMBER OF SEQUENCES: 190	
CORRESPONDENCE ADDRESS:	
ADDRESSEE: Medlen & Carroll, LLP	
STREET: 220 Montgomery Street, Suite 2200	
CITY: San Francisco	
STATE: California	
COUNTRY: United States Of America	

Qy	659	TTTCTGTGTAGCGTGAATATCGTAGATATAGGAAGAAATCAGTGGCGAAGCGGACA	718
Db	677	TTCCAGGTGTAGCGGTGAATATCGTAGAGATCTGGAGGAATACCGGTGGCGAAGCGGCC	736
Qy	719	CCCTGGACTTAATACTGACACTGAGTGGCAAGCGTGGGAGCAAAACAGGATTAGATACC	778
Db	737	CCCTGGAGCAAGACTGACGCTCAGGTGGCAAGCGTGGGAGCAAAACAGGATTAGATACC	796
Qy	779	CTGTTAGTCCACGCGGTAAACGATGTCCTACTAGCCG--TTGGGTTGTAAATGACTTACTGG	836
Db	797	CTGTTAGTCCACGCGGTAAACGATGTCGACTTGGAGGTTGTGCCCTTGAGCGGTGGCTTC	856
Qy	837	CGCAGCTAACCGAATAAGTAGACCGCTTGGGAGTACGGCGCAAGGTTAAAACTCAAAAT	896
Db	857	CGGAGCTAACCGGTTAAGTCGACCGCTTGGGAGTACGGCGCAAGGTTAAAACTCAAAAT	916
Qy	897	GAATTGACGGGGGCGGCACAAAGCGGTGGAGCATGTGTTTAATTCGAAGCAAGCGAAG	956
Db	917	GAATTGACGGGGGCGGCACAAAGCGGTGGAGCATGTGTTTAATTCGATCAACGCGAAG	976
Qy	957	AACCTTACTTACTCTTGACATCCACAGAAATTTGAGAGATCAGATGGTGCCCTTCGGGAA	1016
Db	977	AACCTTACTTCTGCTTTCGACATCCACGGAAGTTTTCAGAGATGAGATGTGCCCTTCGGGAA	1036
Qy	1017	CTGTGACACAGGTGCTGCATGGCTGTGCTCAGCTCGTGTGGTGAATGTTGGGTTAAGTC	1076
Db	1037	CCGTGACACAGGTGCTGCATGGCTGTGCTCAGCTCGTGTGGTGAATGTTGGGTTAAGTC	1096
Qy	1077	CCGTAAACGAGCGCAACCCCTTGCTTATTTGCCAGCACGTAATGTTGGGAACCTTTAAGGA	1136
Db	1097	CCGCAACGAGCGCAACCCCTTATCCTTTGTTGCCAGC--GGTCCGGCCGGAACTCAAAAGGA	1155
Qy	1137	GACTGCCGTTGACAAACCGGAGGAGTGGGAGCAGCTCAAGTCAATCATGCGCCCTTAAG	1196
Db	1156	GACTGCCGTTGATAAATCGAGGAGGAGTGGGATGACGTCAAGTCAATCATGCGCCCTTAAG	1215
Qy	1197	AGTAGGCTACACAGTGTCTACAATGGCTATACAGAGCGCTGCAAGCTAGCGATAGTGA	1256
Db	1216	ACAGGGCTACACAGTGTCTAATGGCGATACAAAGAGAACGCACTTCGCGAGAGCAA	1275
Qy	1257	GGAAATCCCAAAAGTACGTCGTAGTCCGGAATGGAGTCTGCAACTCGCACTCCATGAAGT	1316
Db	1276	GCGAAGCTCATAAAGTGGCTCGTAGTCCGGAATGGAGTCTGCACCTCGACTCATGAAGT	1335
Qy	1317	CGGAATCGCTAGTAATCGGTGAATCAGAAATGTCAGGTGAATAGTTCGCGGCCCTTGTAAC	1376
Db	1336	CGGAATCGCTAGTAATCGGTGAATCAGAAATGCCACGCTGAATAGTTCGCGGCCCTTGTAAC	1395
Qy	1377	ACACGCGCGCTCACCAATGGGAGTTGATGTGCTCCAGAAATGAGTGTATACCCCTCGG	1436
Db	1396	ACACGCGCGCTCACCAATGGGAGTTGATGTGCTCCAGAAATGAGTGTATACCCCTCGG	1453
Qy	1437	GGATGGCGGTTACCGAGGAGTGGTCAATGACTGGGGT	1473
Db	1454	GGAGGCGCTTACCACTTTGTGATTCATGACTGGGGT	1490

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RESULT 12
US-09-465-355-2
; Sequence 2, Application US/09465355
; Patent No. 6316194
; GENERAL INFORMATION:
; APPLICANT: Karn, Jonathan
; APPLICANT: Knowles, David
; APPLICANT: Murchie, Alastair
; APPLICANT: Lentzen, Georg
; TITLE OF INVENTION: Methods and Kits for Discovery of RNA-Binding Antimicrobials
; FILE REFERENCE: 22620/1150 (Formerly 3950/85276)
; CURRENT APPLICATION NUMBER: US/09/465.355
; CURRENT FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: US 09/325,601
; PRIOR FILING DATE: 1999-06-03

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/	PRIOR APPLICATION NUMBER:	GB 9812196.5			
/	PRIOR FILING DATE:	1998-06-05			
/	PRIOR APPLICATION NUMBER:	GB 9904790.4			
/	PRIOR FILING DATE:	1999-03-02			
/	PRIOR APPLICATION NUMBER:	US 60/122,439			
/	PRIOR FILING DATE:	1999-03-02			
/	PRIOR APPLICATION NUMBER:	US 60/088,241			
/	PRIOR FILING DATE:	1998-06-05			
/	NUMBER OF SEQ ID NOS:	37			
/	SOFTWARE:	PatentIn version 3.0			
/	SEQ ID NO 2				
/	LENGTH:	1542			
/	TYPE:	RNA			
/	ORGANISM:	Escherichia coli			
US-09-465-355-2					
Query Match 71.6%; Score 1064.6; DB 4; Length 1542;					
Best Local Similarity 68.8%; Pred. No. 0;					
Matches 1016; Conservative 250; Mismatches 199; Indels 12; Gaps 7					
QY	3	TAGCTCAGATTGAACGCTGGCGGCAGCGTTAAACACATGCCAAGTCGAGCGGTAAACAGG--	60		
DB	20	UGGCUCAGAUAUAAACGCGUGCGGCAGSCCU-AACA CAUGCAAGUCGACGUAACAGGAA	78		
QY	61	GGAGCTTGCTCC--TGC TGA CGAGCGCGGAGCGGTGAGTAACCGTAGGAATCTGCCTA	118		
DB	79	GAACTUUCUUUUGUCUGACGAGUGCGGACGCGGUGAU AUGUCUGGAAAACUGCCUG	138		
QY	119	GTAGAGGGGACAAACATGTGGAACGCATGCTTAATACCATACGCCTAGCCCTGAGGGGGAAG	178		
DB	139	AUGGAGGGGUAUACUACUGSAAACCGGUACUAUACCCGAUAACGUCGCAAGACCAAAG	198		
QY	179	GAGGGGACTCTTCGGAGCCTTCGCTATTAGATGAGCTCGCTGAGATTAGCTAGTTGTTGT	238		
DB	199	AGGGGGA--CCUUCGGGCCUUCUUGCCAUCGGAUGGCCAGAUUGGAUUGCUAGUAGU	256		
QY	239	AGGTTAAAGCCTACCAAGCGAGCATCTCTAACCTGTGAGAGGATGACCAAGTCACAC	298		
DB	257	GGGGUAAACGCGUCACCAUAGGCGCAUCAUCCUAGCUGGUCUGAGAGGAUGACCAGCCAC	316		
QY	299	TGGGACTGAGACACGCCCAGACTCCTACGGGAGGACGACGATGGGGGAATATTGGCAATG	358		
DB	317	UGAAACUGAGACACGGUCCAGACUCCUACGGAGGACGACGUGGGGAUAUUGCACRAUG	376		
QY	359	GGCGAAGCGTGAATCAGCCATCGCCGCTGTGTGAAGAAGGCCTTAGGCTGTATAAGCAC	418		
DB	377	GGCGCAAGCTUGAUGCAGCAUUGCGCGUGUAUGAAGAAGGCCUUCUGGUGUUAAGUAC	436		
QY	419	TTTTAGGGGTGAGGAGGTGATAGTTAATAACGTTATCATCTTGACGTTAGCCCCAGAA	478		
DB	437	UUUACAGCGGGAGGAAGGGAGUAAAGUUAUACCUUUGCUAUUGACUUAUACCCGCAGAA	496		
QY	479	GAAACACCGGCTAACTCTGTGCCAGCACGCCGCTTAATACGTTATCATCTTGACGTTAGCCCAGG	538		
DB	497	GAAACACCGCUAA CUUCGUGCCAGCACGCCGGGUUAUACGGAGGGUGCAAGCGUUAUC	556		
QY	539	GAATTTACTGGCGTTAAACGCGCGTAGTGGTTTGTGTTAAGTCGCGATGTGAATCCCGAG	598		
DB	557	GGAAUUAUCUGGCGUAAUAGCGCAGCGCGUUGUUAUGAUCAGAUUGAUAUCCCGG	616		
QY	599	GCTCAACCTTCGAATGGCACCCGATACCTGGTACGTAAGTATGGTAGAGGGGTGTGGAA	658		
DB	617	GCUCAAACUUGGAAACUGCAUCUGAUAUCUGGCAAGCUUGAGTUCUGUAGAGGGGUAAG	676		
QY	659	TTTTCTGTGTAGCGGTGAAATGCGTGTAGATATAGGAAGCAACNTCAGTGGCGAAGGCAC	718		
DB	677	UUCACAGGUGUAGCGGUGAUAUCCGUAGAUUUCUGAGGAUAUCCGUGGCGAAGCGCGCC	736		
QY	719	CCCTGGACTAATACTGACACTGAGGTGCGAAGCGTGGGAGCAAAACAGGATTAGTATCC	778		
DB	737	CCCUAGCGAAGACUGAGCCUACGUGCGGAAGCGUGGGGAGCAACAGGAUUAUUAUCC	796		
QY	779	CTUGTAGTCCACGGCGTAAACGATGTCTATAGCCG--TTGGGTTGTAATGACTTAGTCG	836		

Db 797 CUGUAGUCCACGCGGUAACGAUGUCACUUGAGGUUGCCUUGAGCGGUGCUUC 856
Qy 837 CGCAGCTAACCAATAAGTAGACCGCTGGGGAGTAGCGCGCGAAGTTAAATCAAT 896
Db 857 CGGAGCUAACCGUUAAGUCGACCGCTGGGGAGTAGCGCGCGAAGTTAAATCAAT 916
Qy 897 GAATGACGGGGCGCGCAGCAGCGGTGGAGCATGTGTTAAATTCGAAGCAACGCGAAG 956
Db 917 GAATGACGGGGCGCGCAGCAGCGGTGGAGCAUGUGGUUUAUUCGAUGCAACGCGAAG 976
Qy 957 AACTTACTACTCTTGTGATCCACAGAACATTTGAGAGATCAGATGCTGCTTCGGAA 1016
Db 977 AACCUAUACUGUGUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 1036
Qy 1017 CTGTGAGACAGTGTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1076
Db 1037 CCGUGAGACAGGUGUGUAGUGUGUGUGUGUGUGUGUGUGUGUGUGUGUGUGUGUG 1096
Qy 1077 CGGTAAACAGCGCAACCTTGTCTTATTTGCGACGCTAATGTTGGAACTTTAAGGA 1136
Db 1097 CGCAACAGCGCAACCTTGTCTTATTTGCGACGCTAATGTTGGAACTTTAAGGA 1155
Qy 1137 GACTGCGGTGACAAACCGGAGGAGGTGGGACGACGTCAAGTTCATCATGCTGCTTACG 1196
Db 1156 GACUGCGAGUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 1215
Qy 1197 AGTAGGGCTACACAGTGTGTAACAATGGCTATACAGAGGGTGCAGCTAGCATAGTGA 1256
Db 1216 ACCAGGGUACACAGUGCUACAUAUGGCGCAUACAAGAGAGCGACCCGCGAGAGCAA 1275
Qy 1257 GCGAATCCACAAAGTACGCTGAGTCCGATTTGGAGTCTGCAACTCGACTCCATCAAGT 1316
Db 1276 GCGGACCUAUAAGUGGUGUGUAGUGUGUGUGUGUGUGUGUGUGUGUGUGUGUGUG 1335
Qy 1317 CGGAATCGCTAGTAATCGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTAAT 1376
Db 1336 CGGAUUGUGUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 1395
Qy 1377 ACACCGCGCTACACAGTGGAGTGTGATGCTCAGAGTGTGCTCAGAGTGTGCTCAG 1436
Db 1396 ACACCGCGCTACACAGTGGAGTGTGATGCTCAGAGTGTGCTCAGAGTGTGCTCAG 1453
Qy 1437 GAGTGGGTACACAGGAGTGTGCTCAGAGTGTGCTCAGAGTGTGCTCAGAGTGTGCT 1473
Db 1454 GAGGCGGCUUACCAUUGUGUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUA 1490

RESULT 13

US-08-520-946-158
; Sequence 158, Application US/08520946
; Patent No. 6372424
; GENERAL INFORMATION:
; APPLICANT: BROW, MARY ANN D.
; APPLICANT: LYAMICHEV, VICTOR I.
; APPLICANT: OLIVE, DAVID M.
; TITLE OF INVENTION: RAPID DETECTION AND IDENTIFICATION OF
; NUMBER OF SEQUENCES: 160
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MEDLEN & CARROLL
; STREET: 220 MONTGOMERY STREET, SUITE 2200
; CITY: SAN FRANCISCO
; STATE: CALIFORNIA
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/520,946

; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: CARROLL, PETER G.
; REGISTRATION NUMBER: 32,837
; REFERENCE/DOCKET NUMBER: FORS-01756
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 705-8410
; TELEFAX: (415) 397-8338
; INFORMATION FOR SEQ ID NO: 158:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1542 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-520-946-158

Query Match 71.6%; Score 1064.6; DB 4; Length 1542;
Best Local Similarity 85.7%; Pred. No. 0;
Matches 1266; Conservative 0; Mismatches 199; Indels 12; Gaps 7;

Qy 3 TAGCTCAGATTGAAACGCTGGCGGCGAGGCTTAAACACATGCAAGTGCAGCGGTAAACAGG-- 60
Db 20 TGGCTCAGATTGAAACGCTGGCGGCGAGGCTTAAACACATGCAAGTGCAGCGGTAAACAGGAA 78
Qy 61 GGAGCTTGTCTCC--TGCTGACGAGCGGCGGAGCGGTGAGTAACGCGTAGGAATCTGCCTA 118
Db 79 GAAGCTTGTCTCTTTGCTGACGAGTGGCGGACGCGGTGAGTAATGCTTGGGAACCTGCCTG 138
Qy 119 GTAGAGGGGGACAAACATGTGGAAACGCGATGCTAATACCGCATACGCGCTCGAGGGGAAAG 178
Db 139 ATGGAGGGGGGAACTACTTACTTGGAAACGCGTAGCTTAATACCGCATACGCTCGCAAGACCAAG 198
Qy 179 GAGGGAGCTTCTCGAGCGCTTCCGCTATTAGATGAGCTTGCCTCGGATGTCGCCAGATGGATTAGTAGT 238
Db 199 AGGGGA--CCCTCGGGCTCTTGCCATCGGATGTCGCCAGATGGATTAGTAGT 256
Qy 239 AGGGTAAAGCGCTTACCAAGCGGACGATCTTAATCTGTCTGAGAGCATGACCAAGTGCACAC 298
Db 257 GGGGTAAACGGCTCACCTAGCGACGATCCCTAGCTGCTGAGAGGATGACCAAGCGCACAC 316
Qy 299 TGGGACTGAGACACGCGCCGACGCTCTAGCGGAGGAGGAGTGGGGAATATTGGACAATG 358
Db 317 TGGAACTGAGACACGCGTCCAGACTCTCTACGGAGGAGGAGTGGGGAATATTGGACAATG 376
Qy 359 GCGCAAGCTGATCCAGCGCATCCGCGTGTGTGAAGAAGGCTTAAAGGTTGTAAGGCAC 418
Db 377 GCGCAAGCTGATCCAGCGCATCCGCGTGTGTGAAGAAGGCTTAAAGGTTGTAAGGATC 436
Qy 419 TTTTCAAGGGTGAAGAGGGTGAAGTTAATACGTTATCATCTTGTAGCTTAGCCCCAGAA 478
Db 437 TTTTCAAGGGGAGGAGGAGTAAAGTTAATACCTTTGCTCATTTAGCTTACCCGCGAA 496
Qy 479 GAAGCAGCGCTAATCTGTGCCAGACGCGCGTAAATACAGAGGGTGCAGCGTTAATC 538
Db 497 GAAGCAGCGCTAATCTGTGCCAGACGCGCGTAAATACAGAGGGTGCAGCGTTAATC 556
Qy 539 GGAATTAATCGGGCTAAAGCGCGGTAGGTGGTTTGTAAAGTGGATGTGAATATCCAGG 598
Db 557 GGAATTAATCGGGCTAAAGCGCGGTAGGTGGTTTGTAAAGTGGATGTGAATATCCCGG 616
Qy 599 GCTCAACTTGGAAATGGACCCGATCTGGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAG 658
Db 617 GCTCAACTTGGAAATGGACCCGATCTGGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAG 676
Qy 659 TTTTCTGTGTAGCGTGAATGCGTAGATATAGGAAGGAAACATCAGTGGCGAAGCGGACA 718
Db 677 TTTCTGTGTAGCGTGAATGCGTAGATATAGGAAGGAAACATCAGTGGCGAAGCGGACC 736
Qy 719 CCCTGGACTAATCTGACATGAGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 778
Db 737 CCCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 796

QY	779	CTGGTAGTCCACGCCGTAAACGATCTCTACTAGCCG--TTGGGTTGTAAATGACTTAGTGG	836
Db	797	CTGGTAGTCCACGCCGTAAACGATCTCTACTAGCCGTTGTGCCCTTCAGCGGTGGCTTC	856
QY	837	CGCAGCTAACCGAATAAGTAGACCGCTCTGGGAGGTACGGCCGCAAGGTTAAAACTCAAA	896
Db	857	CGGAGCTAACCGGTTAAGTCACCGCTCTGGGAGGTACGGCCGCAAGGTTAAAACTCAAA	916
QY	897	GAATTGACGGGGCCGCACAAAGCGGTGGAGCATGTGTTTAAATTCGAGCAACGCGAAG	956
Db	917	GAATTGACGGGGCCGCACAAAGCGGTGGAGCATGTGTTTAAATTCGATGCAACGCGAAG	976
QY	957	AACCTTACTACTCTTGACATCCACAGAAATTTGAGAGATCAGATGCTGCTTCGGGAA	1016
Db	977	AACCTTACTCTGTTGACATCCACGGNAAGTTTTCAGAGATCAGAAATGTCCTTCGGGAA	1036
QY	1017	CTGTGAGACAGGTGTCATGGCTGTGCTCAGCTCGTGTGTGTGAAATGTTGGGTAAAGTC	1076
Db	1037	CCGTGAGACAGGTGTCATGGCTGTGCTCAGCTCGTGTGTGAAATGTTGGGTAAAGTC	1096
QY	1077	CCGTAAACGAGCGCAACCTTGTCCCTATTTCGCAGCAGCTAATGGTGGGAACCTTTAAGGA	1136
Db	1097	CCGCAACGAGCGCAACCTTATCTCTTTGTCACAGC--GGTCCGCGCGGAACTCAAGGA	1155
QY	1137	GACTGCCGGTGACAAAACGGAGGAAGGTGGGAGCAGCTCAAGTCATCATGGGCCCTTAAG	1196
Db	1156	GACTGCCAGTGATAAATCGAGGAGAGGTGGGATGACGTCAAGTCATCATGGGCCCTTAAG	1215
QY	1197	AGTAGGGCTCACACGTGCTCAATGCGGTATACAGAGGCGTGCAGACTAGCGATAGTGA	1256
Db	1216	ACCAGGGCTACACACGTGCTACAATGCGCATACAAAGAGAAGCGACTCGCGAGAGCAA	1275
QY	1257	GGCAATCCCAAGAATAGCTCGTAGTCCGGAATGGAGTCTGCAATCGAATCCATGAAGT	1316
Db	1276	GGGACCTCATAAAGTCGTCGTAGTCCGGATTGGAGTCTGCAACTCGACTCCATGAAGT	1335
QY	1317	CGGAATCGCTAGTAATCGTGAATCTCAGGTTGAATAGCTTCCCGGGCGCTTGTAC	1376
Db	1336	CGGAATCGCTAGTAATCGTGGATCAGAAATGCCACGGTGAATAGCTTCCCGGGCGCTTGTAC	1395
QY	1377	ACACCGCCCGTCAACCATGGGAGTTGATTGCTCCAGAAAGTAGCTAGCTTAAACCTTCG	1436
Db	1396	ACACCGCCCGTCAACCATGGGAGTGGGTTGCAAAAGAGTAGGTAGCTTAACC--TTCG	1453
QY	1437	GGATGGCGGTTACACGGAGTGTCAATGACTGGGGT	1473
Db	1454	GGAGGGCGCTTACCATTTGTGATTCAATGACTGGGGT	1490

RESULT 14

US-09-655-378A-158
; Sequence 158, Application US/09655378A
; Patent No. 6673616
; GENERAL INFORMATION.

APPLICANT: BROW, MARY ANN D.
LYAMICHEV, VICTOR I.
OLIVE, DAVID M.

TITLE OF INVENTION: RAPID DETECTION AND IDENTIFICATION OF
PATHOGENS

NUMBER OF SEQUENCES: 165

CORRESPONDENCE ADDRESS:
ADDRESSEE: MEDLEN & CARROLL
STREET: 220 MONTGOMERY STREET, SUITE 2200
CITY: SAN FRANCISCO
STATE: CALIFORNIA
COUNTRY: UNITED STATES OF AMERICA
ZIP: 94104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/655.378A
 ; FILING DATE: 05-Sep-2000
 ; CLASSIFICATION: <Unknown>
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: CARROLL, PETER G.
 ; REGISTRATION NUMBER: 32,837
 ; REFERENCE/DOCKET NUMBER: FORS-01756
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (415) 705-8410
 ; TELEFAX: (415) 397-8338
 ; INFORMATION FOR SEQ ID NO: 158:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1542 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 158:
 US-09-655-178A-158

Query Match	71.6%	Score 1064.6	DB 4	Length 1542	
Best Local Similarity	85.7%	Pred. No. 0			
Matches 1266	Conservative	0	Mismatches 199	Indels 12	Gaps 7
QY	3	TAGCTCAGATTGAACGCTGCGGCAGCGCTTAACACACATGCAAGTCTGAGCGGTAAACAGG--	60		
Db	20	TGGCTCAGATTGAACGCTGCGGCAGCGCT-AAACATGCAAGTCTGAACCGTAAACAGGAA	78		
QY	61	GGAGCTTGTCTCC--TGCTGACGAGCGCGGACGGGTGAGTAAACGCTGAGGAATCTGCCTA	118		
Db	79	GAAGCTTGTCTTCTTCTGACAGTGGCGGACGGGTGAGTAATGTCTGGGAATACTGCCTG	138		
QY	119	GTAGAGGGGACAAATGTG3AAAACGATCTCTAATACCCATACGCCCTGAGGGGAAAG	178		
Db	139	ATGAGGGGGATAACTACTCTG3AAAACGGTAGCTAATACCGATAACGCTGCAAGACCAAG	198		
QY	179	GAGGGGACTCTTCGGAGCCCTTCGCTATTAGATGAGCTGCGTGAGATTAGCTAGTTGGT	238		
Db	199	AGGGGA--CCTTGGGGCTCTTGCCATCGGATGTGCCAGATGGGATTAGCTAGTAGGT	256		
QY	239	AGGCTAAAGGCCCTACCAAGGGCACGATCTCTAACTGGTCTGAGAGGATGACCAAGTCAAC	298		
Db	257	GGGCTAAACGGCTCACTAGCGACGATCCCTAGCTGGTCTGAGAGGATGACCAAGCCACAC	316		
QY	299	TGGGACTGAGACAGCGCCAGACTCTCTACGGAGGACAGTGGGGAATATTGGACAATG	358		
Db	317	TGGAATCTGAGACAGCGTCCAGACTCTCTACGGAGGACAGTGGGGAATATTGCACAAATG	376		
QY	359	GGCGCAAGCCTCATCCAGCCATGCCCGTGCTGAGAGGGCCTTAGGGTGTGTAAAGCAC	418		
Db	377	GGCGCAAGCCTGATCGAGCCATGCCCGGTGATGAAGAGGGCCTTCGGGTGTGTAAAGTAC	436		
QY	419	TTCAGGGGTGAGGAAGGCTGATGGTTAATACGTTATCATCTTGACGTTAGCCCCAGAA	478		
Db	437	TTTCAGCGGGAGGAAGGAGTAAAGTTAATACTTTGCTCAITGACGTTACCCGAGAA	496		
QY	479	GAAGCACCGGCTAACTCTGTGCCACAGCGCGGTAAATACAGAGGTGCAAGCGTTAATC	538		
Db	497	GAAGCACCGGCTAACTCCGTGCCACAGCGCGGTAAATACGAGAGGTGCAAGCGTTAATC	556		
QY	539	GGAAATTACTGGGCGTAAAGCGCGCTAGTGCTTTGTTAAAGTCGGATGTGAATCCAGG	598		
Db	557	GGAAATTACTGGGCGTAAAGCGCA CGCAGCGGTTTGTTAAGTTCATGTGAATCCCCGG	616		
QY	599	GCTCAACTTGGAAATGGCAACCCGATACTGGCTAGCTAGAGTATGTTAGAGGGGTGTGAA	658		
Db	617	GCTCAACTTGGAAATGTCATCTGATCTAGTGGCAAGCTTGAGTCTCGTAGAGGGGGTAGA	676		
QY	659	TTTCTGTGTAGCGGTGAAATCGCTAGATATAGNAGGAACATCATAGTGGCGNAGCGACA	718		
Db	677	TTCAGGTGTAGCGGTGAAATCGCTAGAGATCTCTGAGGAATACCGGTGGCGAAGCGGCC	736		

QY	719	CCCTGGACTAATACTGACACTGAGGTGCGAAACGTTGGGAGCAACACAGATTAGATACC	778
Db	737	CCCTGGACGAAGACTGACGCTCAGGTGCGAAGCGTTGGGAGCAACACAGATTAGATACC	796
QY	779	CTGTGATGTCACGCCCGTAAACGATGTCCTACGCG--TTGGGTTGTTAATGACTTAGTGG	836
Db	797	CTGTGATGTCACGCCCGTAAACGATGTCGACTTCGAGGTTGTGCGCTTGAGGGCGTGGCTTC	856
QY	837	CGCAGCTAAACGCAATAGTATAGACGGCTCTGGGAGTAGCGCGCAAGGTTAAAACCTCAAAT	896
Db	857	CGGAGCTAAACGCGTTAAGTCGACGCGCTGGGAGTAGCGCGCAAGGTTAAAACCTCAAAT	916
QY	897	GAATTGACGGGGGCCGCACAAAGCGGTGGAGCATGTGTTTAATTCGAAGCAACGCGAAG	956
Db	917	GAATTGACGGGGGCCGCACAAAGCGGTGGAGCATGTGTTTAATTCGATGCAACGCGAAG	976
QY	957	AACCTTACCTTACTCTTGACATCCACAGAACATTTGAGAGATCAGATGGTGCCTTCGGAA	1016
Db	977	AACCTTACCTGCTTTCGACATCCACGGAAGTTTCAGAGATGAGAATGTGCCCTTCGGAA	1036
QY	1017	CTGTGACACAGGTCTGTCATGGCTGTCGTGAGCTCGTGTGTGTAATGTTGGGTTAAGTC	1076
Db	1037	CCGTGGACAGGTGCTGATGGCTGTCGTGAGCTCGTGTGTGTAATGTTGGGTTAAGTC	1096
QY	1077	CCGTAAACGAGCGCAACCTTGCTCTTATTTGCCAGCAGTAATGTGGGAACTTTAAGGA	1136
Db	1097	CCGCAACGAGCGCAACCTTATCTTTGTGCCAGC--GGTCCGCCGCGAACTCAAAGGA	1155
QY	1137	GACTGCCGGTCAAAACCGGAGGAAGGTGGGACGACGTCAAGTCATCATGGCCCTTACG	1196
Db	1156	GACTGCCAGTCAATAACTGGAGGAAGGTGGGATGACGTCAAGTCATCATGGCCCTTACG	1215
QY	1197	AGTAGGGCTACACAGTCTCAATGGCGTATACAGAGGGCTGCAAGCTAGCGATAGTA	1256
Db	1216	ACGAGGGCTACACAGTCTCAATGGCGTATACAGAGGAAGGACCTCGAGAGCAAA	1275
QY	1257	GCGAATCCCAAAAGTAGCTCGTAGTCGGAGTTGGAGTGTGCAACTCGACTCCATGAAGT	1316
Db	1276	GCGGACCTCATAAAGTGGCTCGTAGTCGGAGTTGGAGTGTGCAACTCGACTCCATGAAGT	1335
QY	1317	CGGAATTCGCTAGTAATTCGTGAATCAGATGTCAAGTGTCAAGTGTGCAACTCCGCGCTTGTAC	1376
Db	1336	CGGAATTCGCTAGTAATTCGTGGATCAGAATGCCAGGTGAATACGTTCCCGGCCCTTGTAC	1395
QY	1377	ACACGCGCGTCACACCAATGGAGTTGATTTGCTCCAGAAGTAGCTAGCTTAAACCTTCGG	1436
Db	1396	ACACGCGCGTCACACCAATGGAGTTGGGTTGCAAAAGTAGGTAGCTTAAACC--TTGC	1453
QY	1437	GGATGGCGGTTACCAACGAGTGGTCAATGACTGGGGT	1473
Db	1454	GGAGGGCGTTTACCACTTTGTGATTCATGACTGGGGT	1490

RESULT 15
US-08-114-695A-1
; Sequence 1, Application US/08114695A
; Patent No. 5508193
; GENERAL INFORMATION:
; APPLICANT: Mandelbaum, Raphael T.
; APPLICANT: Wackett, Lawrence P.
; TITLE OF INVENTION: DEGRADATION OF S-TRIAZINES IN SOIL AND
; TITLE OF INVENTION: WATER
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCHWEGMAN, LUNDBERG & WOESSNER, P.A.
; STREET: 3500 IDS CENTER
; CITY: MINNEAPOLIS
; STATE: MN
; COUNTRY: USA
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

```

/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patentin Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/114,695A
/ FILING DATE: 31-AUG-1993
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: MOETING, ANN M.
/ REGISTRATION NUMBER: 33,977
/ REFERENCE/DOCKET NUMBER: 600.268US1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 612-339-0331
/ TELEFAX: 612-339-3061
/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1542 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: rRNA
/ ORIGINAL SOURCE:
/ ORGANISM: Escherichia coli
/ US-08-114-695A-1

Query Match 71.3%; Score 1058.8; DB 1; Length 1542;
Best Local Similarity 68.3%; Pred. No. 0;
Matches 1009; Conservative 248; Mismatches 207; Indels 14; Gaps 6;

QY 3 TAGCTCAGATTGAAGCTGGCGGCGAGGCTTAAACACATGCAAGTCGAGCGGTAAACAGGGG 62
DB 20 UGGCUCAGAUAAACGTCGGCGGCGAGGCCU-AAACAUGCAAGUCGAAACGGUAAACACGGA 78
QY 63 AGCTTGCTCC-----TGCTGACGAGCGCGGACGGGTGAGTAACCGGTAGGAATCTGCCT 117
DB 79 AGAAGCUUGCUUUGCUGACGAGUGCGGCGACGGGAGUAUUGUCUGGGAACUGCCU 138
QY 118 AGTAGAGGGGACACATGTGTGAAACCGCATCTTAATCCGCATACGCCCTCAGGGGGAAA 177
DB 139 GAUGGAGCGGGAUAAACUAUCGGAAACGGUAGCUAAUACCGCAUACGUCGACAGACCAAG 198
QY 178 GGAGGGGACTCTTCGGAGCCCTTCGCTATTAGATGAGCCTCGCTGAGATTAGCTAGTTGG 237
DB 199 AGGGGG---ACUUCGGGCCUUCUGCCAUUGCGAUGUGCCAGAUUGGGAUAGCUAGUAGG 255
QY 238 TAGGGTAAAGGCTACCAAGGCGAGATCTCTTAAGTGTGTGAGAGATGACCAGTACCA 297
DB 256 UGGGGUAAACGGCUCACCUAGGCGACGAUCCUAGCUGGUCUGAGAGGAGUAGCACGCCACA 315
QY 298 CTGGGACTTGACACAGCGCCACAGCTCTACGGGAGCGAGCTGGGGAAATATTGACAAAT 357
DB 316 CUGGAAACUGAGACACGGUCCAGACUCCUACGGGAGCGACGACUGGGGAAUUAUGCACA 375
QY 358 GGGCGCAAGCCCTGATCCAGCCATGCGCGGTGTGTGAAGAAGCCCTTAGGGTTGTAAGCA 417
DB 376 GGGCGCAAGCCUGAUGCAGGCCAUGCCCGGUGUAUGAAGAAGGCCUUCUGGGUUGUAAAGUA 435
QY 418 CTTTCAGGGGTGAGAAAGGTCATAGGTTAATACGTTATCATCTTTCAGTTAGCCCCAGA 477
DB 436 CUUUCAGCGGGAGGAAGGGAGUAAAGUUAUACCUUGUCUUAUGACGUUAACCCGCGAGA 495
QY 478 AGAAGCACCGGCTAACTCTGTGCCAGACGCCCGGTAAATACAGAGGGGTGCAAGCGTTAAT 537
DB 496 AGAAGCACCGCUAACUCCUGCCAGACGCCCGGUAUACGAGGGGUGCAAGCGUUAU 555
QY 538 CGGAATTACTGGCGGTAAAGCGGGCGTAGGTGTTGTTTGAATCGGATGTGAATCCCGAG 597
DB 556 CGGAUUAUCUGGGCGTAAAGCGCACGACGGCGCGUUGUUAUGACAUUGUAAUCCCGG 615
QY 598 GGCTCAACCTTGAATGGCACCGCATCTTGGCTAGCTAGAGTATGTTAGAGGGGTGTGA 657
DB 616 GGCUCAAACCGGGACUGCAUCUGAUCUGGCAAGCUCUGAGUCUCGUAAGAGGGGGGUA 675
QY 658 ATTTCCTGTGTAGCGGTGAAATCGGTAGATATAGGAAGGAAACATCACTCGGCAAGCGGAC 717

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[illegible]

RESULT 6
US-10-411-319-1
; Sequence 1, Application US/10411319

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; Patent NO. 5649381
;
; GENERAL INFORMATION:
;
; APPLICANT: Canon Inc.
;
; TITLE OF INVENTION: Polyhydroxynate, Method For Production Thereof And Microorganisms
;
; TITLE OF INVENTION: In The Same
;
; FILE REFERENCE: 03500.015001.1
;
; CURRENT APPLICATION NUMBER: US/10/411,319
;
; CURRENT FILING DATE: 2003-04-11
;
; PRIOR APPLICATION NUMBER: 2003-04-11
;
; PRIOR FILING DATE: 2000-12-27
;
; NUMBER OF SEQ ID NOS: 1
;
; SOFTWARE: PatentIn version 3.1
;
; SEQ ID NO 1
;
; LENGTH: 1501
;
; TYPE: DNA
;
; ORGANISM: Pseudomonas jessenii 161 strain
US-10-411-319-1

```

Query Match	92.1%;	Score 985.2;	DB 4;	Length 1501;
Best Local Similarity	95.9%;	Prod. No. 0;		
Matches 1011; Conservative	0;	Mismatches 43;	Indels 0;	Gaps 0;

QY	15	TGAA	CGCTGGCGCAGGCCCTAA	CACATGCAAGTCGAGCGGTAGAGAGAACGTTGCTTCTC	74
Db	1	TGAA	CGCTGGCGCAGGCCCTAA	CACATGCAAGTCGAGCGGTAGAGAGAACGTTGCTTCTC	60
QY	75	TTGAGAGCGCGGACGGGTGAGTAA	TGCCCTAGAAATCTGCCTGGTAGTGGGGATAACGT	134	
Db	61	AAATTACGCGCGGACGGGTGAGTAA	TGCCCTAGAAATCTGCCTGGTAGTGGGGATAACGT	134	
QY	135	TCGGAACCGGACCGCTAAATACCGCATACGTCCTACGGGAGAAACGAGGGACCTTCGGGGC	194		
Db	121	CTCGAAAGGACGCTAATAACCGCATACGTCCTACGGGAGAAACGAGGGACCTTCGGGGC	180		
QY	195	TTGCCTATCAGATGAGCCTAGGTCGGATTAGTGTGGTAGGTAATGGCTCACCAAG	254		
Db	181	TTGCCTATCAGATGAGCCTAGGTCGGATTAGTGTGGTAGGTAATGGCTCACCAAG	240		
QY	255	GGACGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACACTGGAACTGAGACACGGTCC	314		
Db	241	GGACGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACACTGGAACTGAGACACGGTCC	300		
QY	315	AGACTCTACGGGAGGACGACGTGGGGAAATTTGGACAAATGGCGGAAAGCCGTATCCACG	374		
Db	301	AGACTCTACGGGAGGACGACGTGGGGAAATTTGGACAAATGGCGGAAAGCCGTATCCACG	360		
QY	375	CATCGCGGTGTGCAAGAGGTCTTCGGATTGTAAAGCACTTTAAGTTGGAGGAAGG	434		
Db	361	CATCGCGGTGTGCAAGAGGTCTTCGGATTGTAAAGCACTTTAAGTTGGAGGAAGG	420		
QY	435	TTGTAGATTAACTCTGCCAATTTTGAGTTACCGACAGAAATAGCACGGGTAACTCTG	494		
Db	421	CATTAAACCTAATACGTTAGTTTGTGAGTTTACCGACAGAAATAGCACGGGTAACTCTG	480		
QY	495	TGCCAGACCGCGGTAAATACAGAGGTGCAAGGTTAATCGGAATTAATCGGGGTAAAG	554		
Db	481	TGCCAGACCGCGGTAAATACAGAGGTGCAAGGTTAATCGGAATTAATCGGGGTAAAG	540		
QY	555	CGCGGTAGGTGGTTGTTAAGTTGGATGTCAAAATCCCGGGCTCAACTGGGAACGTCA	614		
Db	541	CGCGGTAGGTGGTTGTTAAGTTGGATGTCAAAATCCCGGGCTCAACTGGGAACGTCA	600		
QY	615	TTCAAAACTGACTAGATAGTGTAGAGGGTGGTGGAAATTCCTGTGTAGCGGTGAA	674		
Db	601	TTCAAAACTGCAAGCTAGAGTATGCTAGAGGGTGGTGGAAATTCCTGTGTAGCGGTGAA	660		
QY	675	ATCGGTAGATATAGGAAGGAACACCAAGTGGCGAAGGCGACACCTGGACTAATCTGACA	734		
Db	661	ATCGGTAGATATAGGAAGGAACACCAAGTGGCGAAGGCGACACCTGGACTAATCTGACA	720		
QY	735	CTGAGGTGCGAAAGCGTGGGAGCAACACAGATTAGATACCTGGTAGTCCACGCCGTAA	794		
Db	721	CTGAGGTGCGAAAGCGTGGGAGCAACACAGATTAGATACCTGGTAGTCCACGCCGTAA	780		

RESULT 7

US-08-114-695A-6
 ; Sequence 6, Application US/08114695A
 ; Patent No. 5508193
 ; GENERAL INFORMATION:
 ; APPLICANT: Mandelbaum, Raphael T.
 ; APPLICANT: Wackett, Lawrence P.
 ; TITLE OF INVENTION: DEGRADATION OF S-TRIAZINES IN SOIL AND
 ; TITLE OF INVENTION: WATER
 ; NUMBER OF SEQUENCES: 8
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SCHWEGMAN, LUNDBERG & WOESSNER, P.A.
 ; STREET: 3500 IDS CENTER
 ; CITY: MINNEAPOLIS
 ; STATE: MN
 ; COUNTRY: USA
 ; ZIP: 55402

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/114,695A
FILING DATE: 31-AUG-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MUEITING, ANN M.
REGISTRATION NUMBER: 33,977
REFERENCE/DOCKET NUMBER: 600.268US1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612-339-0331
TELEFAX: 612-339-3061
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1518 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: rRNA
ORIGINAL SOURCE:
ORGANISM: Pseudomonas aeruginosa
J5-08-114-695A-6

Query Match 86.0%; Score 920.4; DB 1; Length 1518;
Best Local Similarity 73.0%; Pred. No. 7.8e-315;
Matches 770; Coverage 80.0%;

	Matches	779;	Conservative	201;	Mismatches	86;	Indels	1;	Gaps	1;
QY	3	CCTTGTCTCAGATTGAACGCTGGCGGCAG	-GCCTTAACAATGCAAGTCGCGGTAGAG	61						
	:	:::::	:::::	:::::	:::::	:::::	:::::	:::::	:::::	:::::
Db	18	CAUGGCCUAGAUAAGACGCTGGCGCGGANGCCUAA	CAUCAGUCAAUGCACGCCGUAAGAAGS	77						

		; Patent No. 6677153	
		; GENERAL INFORMATION:	
		; APPLICANT: Iversen, Patrick L.	
		; TITLE OF INVENTION: Antisense Antibacterial Method and	
		; TITLE OF INVENTION: Composition	
		; FILE REFERENCE: 0450-0032.30	
		; CURRENT APPLICATION NUMBER: US/09/726,774	
		; CURRENT FILING DATE: 2000-11-29	
		; PRIOR APPLICATION NUMBER: US 60/168,150	
		; PRIOR FILING DATE: 1999-11-29	
		; NUMBER OF SEQ ID NOS: 139	
		; SOFTWARE: FastSeq for Windows Version 4.0	
		; SEQ ID NO 3	
		; LENGTH: 1467	
		; TYPE: DNA	
		; ORGANISM: Pseudomonas aeruginosa	
		US-09-726-774-3	
		Query Match 84.8%; Score 907.4; DB 4; Length 1467;	
		Best Local Similarity 93.9%; Pred. No. 36-310; Indels 0; Gaps 0;	
		Matches 944; Conservative 0; Mismatches 61;	
QY	64	GCTTCTCTCTCTTGGAGCGCGGACGCGTGAAGTATGCTAGGAATCTGCTGTAGTG	123
DB	10	GCTTCTCTCTCTTGGAGCGCGGACGCGTGAAGTATGCTAGGAATCTGCTGTAGTG	69
QY	124	GGGGATAACGTTTCGGAACCGGACGCTAATACCGCATACGCTCTACGGGAAGACGGGG	183
DB	70	GGGGACAACGTTTCGGAAGGAACGCTAATACCGCATACGCTCTACGGGAAGACGGGG	129
QY	184	ACCTTCGGGCTTGGCTATCAGATGAGCTAGGTCGATTAGCTAGTGTGTTGAGTAA	243
DB	130	ACCTTCGGGCTTGGCTATCAGATGAGCTAGGTCGATTAGCTAGTGTGTTGAGTAA	189
QY	244	GGCTACCAAGCGGACGCTTAACTCGTCTCTGAGAGGATGATCACTCACTGGAAC	303
DB	190	GGCTACCAAGCGGACGCTTAACTCGTCTCTGAGAGGATGATCACTCACTGGAAC	249
QY	304	AGACACGGTCCAGACTCTCTACGGAGCGGACGAGTGGGGAATATTGGACATGGCGAAG	363
DB	250	AGACACGGTCCAGACTCTCTACGGAGCGGACGAGTGGGGAATATTGGACATGGCGAAG	309
QY	364	CTGTATCCAGCATGCGGCTGTGTCGAGGAGGCTCTTCGATTTGTAAGCACTTTAAGTT	423
DB	310	CTGTATCCAGCATGCGGCTGTGTCGAGGAGGCTCTTCGATTTGTAAGCACTTTAAGTT	369
QY	424	GGGAGGAAGGTTGTAGATTAACTCTGCAATTTTGAACGTTTACCGACAGATAAGCACC	483
DB	370	GGGAGGAAGGCTTAACTCTGCAATTTTGAACGTTTACCGACAGATAAGCACC	429
QY	484	GGCTAACTCTGTGCGACGACCGCGGTAAATACAGAGGTCGAGCGTTAATCGGAATTAC	543
DB	430	GGCTAACTCTGTGCGACGACCGCGGTAAATACAGAGGTCGAGCGTTAATCGGAATTAC	489
QY	544	TGGCGTTAAAGCGCGCTAGTGTGTTAAAGTTGATGTAATCCCGGGCTCAACC	603
DB	490	TGGCGTTAAAGCGCGCTAGTGTGTTAAAGTTGATGTAATCCCGGGCTCAACC	549
QY	604	TGGGAATGCAATTCAAAACCTGACTGACTAGAGTATGTTAGAGGTTGTTGGAATTTCTGT	663
DB	550	TGGGAATGCAATTCAAAACCTGACTGACTAGAGTATGTTAGAGGTTGTTGGAATTTCTGT	609
QY	664	GTAGCGGTAAATCGGTAGATATAGGAAGGAACACAGTGGCGAGGCGACCTGAC	723
DB	610	GTAGCGGTAAATCGGTAGATATAGGAAGGAACACAGTGGCGAGGCGACCTGAC	669
QY	724	TAACTACTGACACTGAGGTGGGAGAGCGTGGGAGCAACACAGGATTAGATACCTCGGTAGT	783
DB	670	TAACTACTGACACTGAGGTGGGAGAGCGTGGGAGCAACACAGGATTAGATACCTCGGTAGT	729
QY	784	CCAGCGGTAAACCGATGTCAGTCCGCTTGGATCCCTTGGATCTTGTAGTGGCGAGCTA	843
DB	730	CCAGCGGTAAACCGATGTCAGTCCGCTTGGATCCCTTGGATCTTGTAGTGGCGAGCTA	789

QY 844 AGCATTAAAGTTGACCGCCCTGGGAGTACGGCCGCAAGGTTAAACTCAATGAATTGAC 903
DB 790 AGCATTAAAGTTGACCGCCCTGGGAGTACGGCCGCTAGTTAAACTCAATGAATTGAC 849
QY 904 GGGGGCCGCAAGCGGTGGAGCATGTGTTAAATCGAAGCAACGCGAAGAACCTTAC 963
DB 850 GGGGGCCGCAAGCGGTGGAGCATGTGTTAAATCGAAGCAACGCGAAGAACCTTAC 909
QY 964 CAGGCTTGCATCAATCAATCAATCTTCTAGAGATAGATGGTGCCTTCGGGAACATTGAGA 1023
DB 910 CAGGCTTGCATCAATCAATCAATCTTCTAGAGATAGATGGTGCCTTCGGGAACATTGAGA 969
QY 1024 CAGGCTTGCATCAATCAATCAATCTTCTAGAGATAGATGGTGCCTTCGGGAACATTGAGA 1068
DB 970 CAGGCTTGCATCAATCAATCAATCTTCTAGAGATAGATGGTGCCTTCGGGAACATTGAGA 1014

RESULT 9
US-09-726-774-14
; Sequence 14, Application US/09726774
; Patent No. 6677153
; GENERAL INFORMATION:
; APPLICANT: Iversen, Patrick L.
; TITLE OF INVENTION: Antisense Antibacterial Method and
; FILE REFERENCE: 0450-0032.30
; CURRENT APPLICATION NUMBER: US/09/726,774
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: US 60/168,150
; PRIOR FILING DATE: 1999-11-29
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 1487
; TYPE: DNA
; ORGANISM: Shigella dysenteriae
US-09-726-774-14

Query Match 74.9%; Score 801; DB 4; Length 1487;
Best Local Similarity 85.0%; Pred No. 1.3e-272;
Matches 909; Conservative 0; Mismatches 155; Indels 5; Gaps 1;

QY 5 TTGCTCAGATTGAACGCTGGCGGAGGCTTAACACATCGAAGTCGAGCGGTAGAGAGAAG 64
DB 1 TGGCTCAGATTGAACGCTGGCGGAGGCTTAACACATCGAAGTCGAGCGGTAAAGAGAAG 60
QY 65 CTTCCTTCT 119
DB 61 CAGCTTCT 120
QY 120 AGTGGGGGATAACGCTTCGGAAGCGGAGCTTAATACCGCATACGTCCTACGGGAGAAAGCA 179
DB 121 GGAGGGGATAACTACTTGGAAACGGTAGCTTAATACCGCATACGTCCTACGGGAGAAAG 180
QY 180 GGGGACCTTCGGGCTTCGCTATCAGATGAGCCTAGCTCGGATTAGTCTGCTGAGG 239
DB 181 GGGGACCTTCGGGCTTCGCTATCAGATGAGCCTAGCTCGGATTAGTCTGAGTGGG 240
QY 240 TAATGGCTCAGGAGGAGCATCGGTAATCTGCTGAGAGGATGATCAGTCACTGGA 299
DB 241 TAACGGCTCAGGAGGAGCATCGGTAATCTGCTGAGAGGATGATCAGTCACTGGA 300
QY 300 ACTGAGACAGGCTTCAGACTTCCTACGGGAGGAGCAGTGGGATATTGACATGGCG 359
DB 301 ACTGAGACAGGCTTCAGACTTCCTACGGGAGGAGCAGTGGGATATTGACATGGCG 360
QY 360 AAGGCTGATCCAGCCTACGCGGTGTGTGAAGAGGCTTCCTGATTTAAAGCACTTTA 419
DB 361 CAAGGCTGATCCAGCCTACGCGGTGTGTGAAGAGGCTTCCTGATTTAAAGCACTTTT 420
QY 420 AGTTGGGAGGAGGCTTGTAGATTATCTCTGCAATTTTGAAGCTTACCGAGAAATAG 479

DB 421 AGCGGGAGGAGGAGGAGTAAAGTTAATACCTTTGCTCATTTGACGTTACCGCGAAGAAG 480
QY 480 CACCGGCTAACTCTGTGCCAGCAGCGCGCTAATACAGAGGCTGCAAGCGTTAATCGGAA 539
DB 481 CACCGGCTAACTCTGTGCCAGCAGCGCGCTAATACAGAGGCTGCAAGCGTTAATCGGAA 540
QY 540 TTACTGGGCGTAAAGCGCGGTAGTGGTTTGTAAAGTTGATGTGAAATCCCGGGCTC 599
DB 541 TTACTGGGCGTAAAGCGCGGTAGTGGTTTGTAAAGTTGATGTGAAATCCCGGGCTC 600
QY 600 AACCTGGGAACTGCAATTCAAAACCTGACTGACTAGTATGATGAGGCTGTTGGAATTTT 659
DB 601 AACCTGGGAACTGCAATTCAAAACCTGACTGACTAGTATGATGAGGCTGTTGGAATTTT 660
QY 660 CTGTGTAGCGGTGAAATGCGTAGATATAGAAAGCAACACAGTGGCGAAGGCGACCACT 719
DB 661 AGGTGTAGCGGTGAAATGCGTAGATATAGAAAGCAACACAGTGGCGAAGGCGGCCCCCT 720
QY 720 GGACTAATACTGACACTGAGTGGCGAAGCGTGGGGAGCAAAACAGATTAGATACCTGG 779
DB 721 GGACGAAAACCTGACGCTCAGGTGGCGAAGCGTGGGGAGCAAAACAGATTAGATACCTGG 780
QY 780 TAGTCCAGCGCGTAAACGATGTCAACTAGCCGTTGGAAGCCTTGAGCTTTAGTGGCGCA 839
DB 781 TAGTCCAGCGCGTAAACGATGTCAACTAGCCGTTGGAAGCCTTGAGCTTTAGTGGCGCA 840
QY 840 GCTAACGCAATTAAAGTTGACCGCTGGGGAGTACCGCCCGCAAGGTTAAAACTCAATGAAT 899
DB 841 GCTAACGCAATTAAAGTTGACCGCTGGGGAGTACCGCCCGCAAGGTTAAAACTCAATGAAT 900
QY 900 TGACGGGGCGCGCACACAGCGGTGGAGCATGTGGTTTAAATTCGAGCAACCGAAGAAC 959
DB 901 TGACGGGGCGCGCACACAGCGGTGGAGCATGTGGTTTAAATTCGAGCAACCGAAGAAC 960
QY 960 TTACCGAGCGCTTGACATCAATGAACTTTCTAGAGATAGATTGGTGCCTTCGGGACATT 1019
DB 961 TTACCTGGCTTGACATCAACAGAACCTTTAGAGATAGACGAGGCTTCGGGAACTGT 1020
QY 1020 GAGACAGTGTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1068
DB 1021 GAGACAGTGTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1069

RESULT 10
US-08-757-653-158
; Sequence 158, Application US/08757653
; Patent No. 5843669
; GENERAL INFORMATION:
; APPLICANT: Kaiser, Michael W.
; APPLICANT: Lyamichev, Victor I.
; TITLE OF INVENTION: Cleavage Of Nucleic Acid Using
; TITLE OF INVENTION: Thermostable PEN-1 Endonucleases
; NUMBER OF SEQUENCES: 190
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Medlen & Carroll, LLP
; STREET: 220 Montgomery Street, Suite 2200
; CITY: San Francisco
; STATE: California
; COUNTRY: United States Of America
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/757,653
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ingolia, Diane E.
; REGISTRATION NUMBER: 40,027


```

, REFERENCE/DOCKET NUMBER: FORS-02565
,
, TELECOMMUNICATION INFORMATION:
, TELEPHONE: (415) 705-8410
, TELEFAX: (415) 397-8338
, INFORMATION FOR SEQ ID NO: 158:
, SEQUENCE CHARACTERISTICS:
, LENGTH: 1542 base pairs
, TYPE: nucleic acid
, STRANDEDNESS: double
, TOPOLOGY: linear
, MOLECULE TYPE: DNA (genomic)
, US-08-757-653-158

```

Query Match	74.6%	Score 798.4	DB 2	Length 1542
Best Local Similarity	85.4%	Pred. No. 1.1e-271	Indels 6	Gaps 2
Matches 915	Conservative 0	Mismatches 151		
QY	3	CCCTGTCTCAGATTGAACGCTGGCGCAGGCGCTAACACATGCAAGTGCAGCGGT---AGAG	59	
DB	18	CATGGCTCAGATTGAACGCTGGCGCAGGCGCTAACACATGCAAGTGCAGCGTAAACAGGA	77	
QY	60	AGAAAGCTTGCTTCT---CTTGAGAGCGCGCGGAGTGAATGCTTAGGAATCTGCGCT	116	
DB	78	AGAAGCTTGCTTCTTCTGCTGACGAGTGCAGCGGCGGAGTGAATGCTTGCGAATCTGCT	137	
QY	117	GGTAGTGGGGGATAACGTTGCGAAACGACGCTAATACCGCATACGTCCTACGGGAGAAA	176	
DB	138	GATGGAGGGGATAACTACTTGGAACCGTAGCTAATACCGCATAACTCGCAAGACCAA	197	
QY	177	GCAGGGACCTTCGGGCTTCGCGTATCAGATGAGCCTAGTGCAGTTCAGTTCGGTG	236	
DB	198	GAGGGGACCTTCGGGCTTCGCGTATCAGATGAGCCTAGTGCAGTTCAGTTCGGTG	257	
QY	237	AGTAAATGGCTCACCAAGGCGACGATCCGTAACCTGGTCTGAGAGGATGATCAGTCAACT	296	
DB	258	GGGTAAACGGCTTCACTAGCGACGATCCCTAGCTGGTCTGAGAGGATGATCAGTCAACT	317	
QY	297	GGAATCTGAGACACGCTCCAGACTCCTACGGGAGCGACAGTGGGGAAATATTGCAATGG	356	
DB	318	GGAATCTGAGACACGCTCCAGACTCCTACGGGAGCGACAGTGGGGAAATATTGCAATGG	377	
QY	357	CGCAAGGCTGATCCAGCCATGCGCGTGTGAGAGAGGCTTCGGAATCTTAAGCACT	416	
DB	378	CGCAAGGCTGATGCGAGCCATGCGCGTGTGAGAGAGGCTTCGGAATCTTAAGCACT	437	
QY	417	TTAAGTTCGGGAGGAGGTTGTAGATTAATCTCTGCAATTTTGACGTTACCGACAGAA	476	
DB	438	TTACGCGGGAGGAGGAGTAAAGTTAATACCTTTGCTCATTTGACGTTACCGCAGAA	497	
QY	477	AAGCACCGGCTAACTCTGTGCAGACGCGCGTAAATACAGAGGTGCAAGGGTTAATCG	536	
DB	498	AAGCACCGGCTAACTCCGTGCAGACGCGCGTAAATACAGAGGTGCAAGGGTTAATCG	557	
QY	537	GAAATTACTGGGCGTAAAGCGCGCTAGGTGGTTGTTAAAGTTGGAATGTGAATCCCGGG	596	
DB	558	GAAATTACTGGGCGTAAAGCGCGCTAGGTGGTTGTTAAAGTTGGAATGTGAATCCCGGG	617	
QY	597	CTCAACCTGGGAACCTGCAATCAAACTGACTAGATGATGTTAGAGGTTGGTGGAT	656	
DB	618	CTCAACCTGGGAACCTGCAATCAAACTGACTAGATGATGTTAGAGGTTGGTGGAT	677	
QY	657	TTCCTGTGTAGCGGTGAATGCGTAGATATGGAAGAACACAGTGGCGAAGGCGACCA	716	
DB	678	TCCAGGTGTAGCGGTGAATGCGTAGATATGGAAGAACACAGTGGCGAAGGCGACCC	737	
QY	717	CCTGGAATTAATCTGACCTGAGGTCGAAAGCGTGGGAGCAAAACAGATTAGATATCCC	776	
DB	738	CCTGGAATTAATCTGACCTGAGGTCGAAAGCGTGGGAGCAAAACAGATTAGATATCCC	797	
QY	777	TGGTAGTCACGCGGTAAACGATGTCATGCGGTTGGAAGCCTTTGAGCTTTTGTAGTGC	836	
DB	798	TGGTAGTCACGCGGTAAACGATGTCATGCGGTTGGAAGCCTTTGAGCTTTTGTAGTGC	857	

Db 318 GGAACUGAGACCGTCCAGACUCCUACCGGAGGACGAGUGGGAAUUAUUGCACAAUGG 377
Qy 357 GCGAAAGCCTGATCCAGCCATCGCGTGTGTGAAGAAGTCTTCCGATGTGAAGCACT 416
Db 378 GCGCAAGCUGAUGACGACCGCGGUGAUGAAGAAGCCUUCGGUUGUUAAGUACU 437
Qy 417 TTAAGTTGGAGAAAGGGTTGTAGATTAATCTCTGCAATTTTGAGTTACCGACAGAA 476
Db 438 UUCAGCGGGAGAGGAGGAAAGUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAUUAU 497
Qy 477 AAGCAGCGCTAATCTGTGCCAGACGCGCGGTATATACAGAGGGTGCAGGTTAATCG 536
Db 498 AAGCAGCGCTAATCTGTGCCAGACGCGCGGTATATACAGAGGGTGCAGGTTAATCG 557
Qy 537 GAATTAAGTTGGAGAAAGGGTTGTAGATTAATCTCTGCAATTTTGAGTTACCGACAGAA 596
Db 558 GAAUUAUUGGCGUAAAGCGACGCGCGGUGUUAUUAUUAUUAUUAUUAUUAUUAUUA 617
Qy 597 CTCACCTGGGAACTGCAATTCCTGCAATTTTGAGTTACCGACAGAA 656
Db 618 CUCACCTGGGAACTGCAATTCCTGCAATTTTGAGTTACCGACAGAA 677
Qy 657 TTCCTGTGTAGCGGTGAAATTCCTGATATATAGGAAGAAACACAGTGGCGGACCA 716
Db 678 UCCAGGUGAGCGGUGAAGGUGAAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAG 737
Qy 717 CTGTGACTAATCTGACACTGAGGTGCGAAGCGTGGGAGGAGCAACAGGATTTAGTGGC 776
Db 738 CCUGGACGAGACUAGCUCAGGUGCGAAGCGGUGGAGGAGCAACAGGATTTAGTGGC 797
Qy 777 TGTAGTCCAGCGCTGAAACGATGTCATGACCGCTTGGAGGCTTTAGTGGC 836
Db 798 UGUAGUCCAGCGGUAACGAUGUCGACUUGAGGUGGUGGUGGUGGUGGUGGUGGUGG 857
Qy 837 GCAGTACGCAATTAAGTTGACCGCTGGGAGTACGCGCGGAGGTTAAACTCAATG 896
Db 858 GGAGCUAAGCGGUAAGGUGGAGCGCGGUGGAGGAGUAGCGCGGAGGUGGUGGUGG 917
Qy 897 AATTGACGGGGCGCGCAAGCGTGGAGATGTGTTTAACTTCGAGCAACGCGAGA 956
Db 918 AAUAGCGGGCGCGCAAGCGGUGGAGGUGGUGGUGGUGGUGGUGGUGGUGGUGG 977
Qy 957 ACCTTACAGCGCTTGACATCAATGAACTTTCTAGAGATGATGTTGCTTGGGAAAC 1016
Db 978 ACCUUAACGUGUCUAGCAUCCAGGAGUUAUUAUUAUUAUUAUUAUUAUUAUUAU 1037
Qy 1017 ATTGAGACAGTGTGATGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1068
Db 1038 CGUGAGACAGGUGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGGUGG 1089

RESULT 12
US-08-520-946-158
; Sequence 158, Application US/08520946
; Patent No. 6372424
; GENERAL INFORMATION:
; APPLICANT: BROW, MARY ANN D.
; APPLICANT: LYAMICHEV, VICTOR I.
; APPLICANT: OLIVE, DAVID M.
; TITLE OF INVENTION: RAPID DETECTION AND IDENTIFICATION OF
; TITLE OF INVENTION: PATHOGENS
; NUMBER OF SEQUENCES: 160
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MEDLEN & CARROLL
; STREET: 220 MONTGOMERY STREET, SUITE 2200
; CITY: SAN FRANCISCO
; STATE: CALIFORNIA
; COUNTRY: UNITED STATES OF AMERICA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/520,946
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CARROLL, PETER G.
REGISTRATION NUMBER: 32,837
REFERENCE/DOCKET NUMBER: FORS-01756
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 705-8410
TELEFAX: (415) 397-8338
INFORMATION FOR SEQ ID NO: 158:
SEQUENCE CHARACTERISTICS:
LENGTH: 1542 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-520-946-158
Query Match 74.6%; Score 798.4; DB 4; Length 1542;
Best Local Similarity 85.4%; Pred. No. 1.e-271;
Matches 915; Conservative 0; Mismatches 151; Indels 6; Gaps 2;
Qy 3 CTTGCTCAGATTGAACTGGCGGAGGCTTAACATGCAAGTCGAGCGGT---AGAG 59
Db 18 CATGCTCAGATTGAACTGGCGGAGGCTTAACATGCAAGTCGAGCGGTAAACAG 77
Qy 60 AGAAGCTTGTCTCT---CTTGAGAGCGGCGACGGGTGAGTAATGCTAGGAATCTGCT 116
Db 78 AGAAGCTTGTCTCTTTGCTGACAGTGGCGGAGGCTGAGTAATGCTGGGAACTGCT 137
Qy 117 GGTAGTGGGGGATTAACGTTTCGAAACCGACGCTAATACCGCATACGCTACCGGAGAA 176
Db 138 GATGAGGGGGATTAACCTACTGGAACGGGTAGCTAATACCGCATACGCTGCAAGACCA 197
Qy 177 GCAGGGACCTTGGGGCTTGGCTATCAGATGACCTAGGTGCGGATTTAGTGGTGGT 236
Db 198 GAGGGGACCTTGGGGCTTGGCTATCAGATGACCTAGGTGCGGATTTAGTGGTGGT 257
Qy 237 AGGTAATGGCTTCAACAGGCGAGCATCGGTAACTGGTCTGAGAGGATGATCAGTCACT 296
Db 258 GGTGACGGCTTCACTAGGCGACGATCCCTAGTGGTCTGAGAGGATGATCAGTCACT 317
Qy 297 GGAACCTGAGACACGCTCCAGACTCCTACGGGAGGCGAGTGGGGAATATTGGAATGG 356
Db 318 GGAACCTGAGACACGCTCCAGACTCCTACGGGAGGCGAGTGGGGAATATTGGAATGG 377
Qy 357 GCGAAGCCTGATCCAGCCATGCGCGTGTGTGAAGAAGTCTTTCGGATTTGTAAGCACT 416
Db 378 GCGAAGCCTGATCCAGCCATGCGCGTGTGTGAAGAAGTCTTTCGGATTTGTAAGCACT 437
Qy 417 TTAAGTTGGGAGGAGGTTGTAGATTAATCTCTGCAATTTTGAGTTACCGACAGAA 476
Db 438 TTGAGGGGAGGAGGAGGTTGTAGATTAATCTCTGCAATTTTGAGTTACCGACAGAA 497
Qy 477 AAGCAGCGCTAATCTGTGCCAGACGCGCGGTATATACAGAGGGTGCAGGCGTTAATCG 536
Db 498 AAGCAGCGCTAATCTGTGCCAGACGCGCGGTATATACAGAGGGTGCAGGCGTTAATCG 557
Qy 537 GAATTAAGTTGGGCGTAAAGCGCGGTAGGTGGTTGTTTAAAGTTGGAATCCCGGG 596
Db 558 GAATTAAGTTGGGCGTAAAGCGCGGTAGGTGGTTGTTTAAAGTTGGAATCCCGGG 617
Qy 597 CTCACCTGGGACTGCAATTCCTGCAATTTTGAGTTACCGACAGAA 656
Db 618 CTCACCTGGGACTGCAATTCCTGCAATTTTGAGTTACCGACAGAA 677
Qy 657 TTCCTGTGTAGCGGTGAAATTCCTGATATATAGGAAGAAACACAGTGGCGGACCA 716
Db 678 TCCAGGTGTAGCGGTGAAATTCCTGATATATAGGAAGAAATACCGGTGGCGGAGCGGCC 737

QY	717	CCTGACCTAATCTGACACTGAGTGCGAAGCGTGGGAGCAACAGGATTAGTACC	776
DB	738	CCTGACGAGACTGACGCTCAGGTGCGAAGCGTGGGAGCAACAGGATTAGTACC	797
QY	777	TGGTAGTCCAGCGCTTAAGTTGACCGCTGGGAGTACCGCCGCAAGCTTTAGTGGC	836
DB	798	TGGTAGTCCAGCGCTTAAGTTGACCGCTGGGAGTACCGCCGCAAGCTTTAGTGGC	857
QY	837	GCAGCTAACCGCAATTAAGTTGACCGCTGGGAGTACCGCCGCAAGCTTTAGTGGC	896
DB	858	GGAGCTAACCGCTTAAGTTGACCGCTGGGAGTACCGCCGCAAGCTTTAGTGGC	917
QY	897	AATTGACGGGGCCGCGCAAGCGTGGGAGTACCGCCGCAAGCTTTAGTGGC	956
DB	918	AATTGACGGGGCCGCGCAAGCGTGGGAGTACCGCCGCAAGCTTTAGTGGC	977
QY	957	ACCTTACAGCGCTTGACATCAATGAATTTCTAGAGATAGATTGGTGGCTTCGGGAAC	1016
DB	978	ACCTTACAGCGCTTGACATCAATGAATTTCTAGAGATAGATTGGTGGCTTCGGGAAC	1037
QY	1017	ATTGAGACAGGTGCTGCATGGCTGCTCAGCTCGTGTGTAATGTAAGG	1068
DB	1038	CGTGAGACAGGTGCTGCATGGCTGCTCAGCTCGTGTGTAATGTAAGG	1089
RESULT 13			
US-09-655-378A-158			
Sequence 158, Application US/09655378A			
Patent No. 6673616			
GENERAL INFORMATION:			
APPLICANT: BROW, MARY ANN D.			
LYAMICHEV, VICTOR I.			
OLIVE, DAVID M.			
TITLE OF INVENTION: RAPID DETECTION AND IDENTIFICATION OF			
PATHOGENS			
NUMBER OF SEQUENCES: 165			
CORRESPONDENCE ADDRESS:			
ADDRESS: MEDLEN & CARROLL			
STREET: 220 MONTGOMERY STREET, SUITE 2200			
CITY: SAN FRANCISCO			
STATE: CALIFORNIA			
COUNTRY: UNITED STATES OF AMERICA			
ZIP: 94104			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: PatentIn Release #1.0, Version #1.30			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/09/655,378A			
FILING DATE: 05-Sep-2000			
CLASSIFICATION: <Unknown>			
ATTORNEY/AGENT INFORMATION:			
NAME: CARROLL, PETER G.			
REGISTRATION NUMBER: 32,837			
REFERENCE/DOCKET NUMBER: FORS-01756			
TELECOMMUNICATION INFORMATION:			
TELEPHONE: (415) 705-8410			
TELEFAX: (415) 397-8338			
INFORMATION FOR SEQ ID NO: 158:			
SEQUENCE CHARACTERISTICS:			
LENGTH: 1542 base pairs			
TYPE: nucleic acid			
STRANDEDNESS: double			
TOPOLOGY: linear			
MOLECULE TYPE: DNA (genomic)			
SEQUENCE DESCRIPTION: SEQ ID NO: 158:			
US-09-655-378A-158			
Query Match 74.6%; Score 798.4; DB 4; Length 1542;			
Best Local Similarity 85.4%; Pred. NO. 1.1e-271;			
Matches 915; Conservative 0; Mismatches 151; Indels 6; Gaps 2;			

RESULT 14

US-08-114-695A-2
; Sequence 2, Application US/08114695A
; Patent No. 5508193
; GENERAL INFORMATION:
; APPLICANT: Mandelbaum, Raphael T.
; APPLICANT: Wackett, Lawrence P.
; TITLE OF INVENTION: DEGRADATION OF S-TRIAZINES IN SOIL AND
; TITLE OF INVENTION: WATER
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCHWEMMAN, LUNDBERG & MOESSNER, P.A.
; STREET: 3500 IDS CENTER
; CITY: MINNEAPOLIS
; STATE: MN
; COUNTRY: USA
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/114,695A
; FILING DATE: 31-AUG-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MUEITING, ANN M.
; REGISTRATION NUMBER: 33,977
; REFERENCE/DOCKET NUMBER: 600.268US1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612-339-0331
; TELEFAX: 612-339-3061
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1473 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: rRNA
; ORIGINAL SOURCE:
; ORGANISM: Pseudomonas sp. Atrazine-Degrading Isolate
; ORGANISM:
US-08-114-695A-2

Query Match

Best Local Similarity 74.1%; Score 793.4; DB 1; Length 1473;
Matches 741; Conservative 198; Mismatches 111; Indels 9; Gaps 7;

QY 3 CTTGTCTCAGATTGAACGCTGGCGG-CAGGCTTAACACATGCAAGTCGAGCGGTAGAGAG 61
DB 15 CAUGGCUCAAGUAAUUGUGGGGUGUAGCCUACACAGUAGCGGGAUGAAGG 74
QY 62 AAGCTTGCTTCTTGTAG-AGCGCGACGCGGTGAGTAATGCTTAGGAATCTGCTGG-T 119
DB 75 GAGCUUGUCCCGGAUUUAGCGCGGAGUGGUGAGUAUCCUAGGAUUCUGCGU 134
QY 120 AGTGGGGGATAACGTTCCGAAACGCGCTTAATACCGCATACGCTACCGGGAAGCA 179
DB 135 AGUGGGGGACACGUCGCGGAAAGAGCGCUAAUACCGCAUACGUCUCCCGGAGAAUG 194
QY 180 GGGGACCTTCGGGCTTTCGCTATCAGATGAGCTAGGTCGAGATTAGCTAGTGGTGGG 239
DB 195 GGGGAUUCUGGACCUACGCUAUCGCUAGGCGGCGGAGGCGGAGUAGUAGGUGGG 254
QY 240 TAATGCTCACCAGGGGAGCATCCGTAATCTGTGAGAGATGATCATCATCTGA 299
DB 255 UAAUGGCUACCGUAGCGGAGCGGCUAUCUGGUCUGAGAGGAUGAUCACUGCA 314
QY 300 ACTGAGACACGGTCCAGACTCTTACCGGAGGAGGAGTGGGAGATTTGGAATGGCGG 359
DB 315 ACUGAGACACGGUCCAGUCUCUACCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 374

QY 360 AAAGCCTGATCCAGCCATCCCGGTGTGTGAAGAAGGTCTTCGATTTGTAAGCACTTTA 419
DB 375 AAAGCCUNAUCCAGCCAUCCGCGUGUGAGAGAGAGGUCUUCGUAUUAAGCAUAUA 434
QY 420 AGTTGGGAGGAGGTTGTAGATTAACTCTGCAATTTTGAGCTTACCGACAGATAAG 479
DB 435 AGUUGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 494
QY 480 CACCGCTAACTCTGTGCCAGCAGCGCGGTAAATACAG-AGGCTGCAAGCGTTAATCGGA 538
DB 495 CACCGCUAAUUCUGCCAGCAGCGCGGUAUAUCUGAAGGUGUGUAGCGUUAUCGGA 554
QY 539 ATTACTGGGCTAAAGCGCGGTAGTGTGTTTAAAGTTGATGTGAAATCCCGGGCT 598
DB 555 AUUACUGGGYUAAAGCGCGUAGUGUUAAGUAGUAGUAGUAGUAGUAGUAGUAGU 614
QY 599 CAACCTGGGAACTGCATTCAAACTGACTGACTAGATGTGTAGAGGTGTGGAATTT 658
DB 615 CAACUGGGGACUGCAUCCAUAAUCCUGAUAUAGGAGGAGGAGGAGGAGGAGGAGG 674
QY 659 CCTGTGTAGCGGTAAATGCGTAGATATAGGAAGGAAACACAGTGGCGAAGCGGACC 718
DB 675 CCUGUGUAGCGGUGAAUUGCGUAGAUUAGGAGGAGGAGGAGGAGGAGGAGGAGG 734
QY 719 TGGACTAATCTGACACTGAGGTGCGAAAGCGTGGGAGCAAAACAGGATTAGATAC 778
DB 735 UCGACUGAUACGACCCUGAGGUGCGCAAGC-UGGGGAGGAAACAGGAGUAGUAGUAG 793
QY 779 GTAGTCCAGCGCGTAAACGATGTCACTAGCGGTGGAAGCGCTTGTAGTGGGCGC 838
DB 794 GUAGUCCACGCGGUCACAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAGUAG 853
QY 839 AGCTAACGCTTAAAGTTGACCGCTGGGAGTACGCGCGCAAGGTAAACTCAATGAA 898
DB 854 AG-UAAAGCGGAUAGUGACCGCGCGGCGGAGGAGGAGGAGGAGGAGGAGGAGG 912
QY 899 TTGACGGGGCGCGCAACGCGGTGGAGCATGTGTTTAAATTCGAAGCAACGCAAG 958
DB 913 U---CAGGGGGCGCGCACACCGGUGGAGCAUGUGUUAUUCGANNNAACGCGAG 969
QY 959 CTTACAGGCGCTTACATCAATGAACTTCTAGAGATAGATTGCTGCTTCGGGAACAT 1018
DB 970 CUUACCGGCGUAGCAUCCGGAUCCGAGCAUGCGAGAGYCCUUCGCGGAUUG 1029
QY 1019 TGAGACAGGTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1057
DB 1030 GAACACAGGUGUGCAUGGUGUGUGUGUGUGUGUGUGUGUGUGUGUGUGUGUG 1068

RESULT 15

US-09-726-774-2
; Sequence 2, Application US/09726774
; Patent No. 6677153
; GENERAL INFORMATION:
; APPLICANT: Iversen, Patrick L.
; TITLE OF INVENTION: Antisense Antibacterial Method and
; TITLE OF INVENTION: Composition
; FILE REFERENCE: 0450-0032.30
; CURRENT APPLICATION NUMBER: US/09/726,774
; CURRENT FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: US 60/168,150
; PRIOR FILING DATE: 1999-11-29
; NUMBER OF SEQ ID NOS: 139
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 2
; LENGTH: 1541
; TYPE: DNA
; ORGANISM: Salmonella typhimurium
US-09-726-774-2

Query Match 73.9%; Score 790.2; DB 4; Length 1541;
Best Local Similarity 84.3%; Pred. No. 8.7e-269;

Matches		903;	Conservative	0;	Mismatches	163;	Indels	5;	Gaps	1;
Qy	3	CTTTGCTCAGATTGAAACGCTGGCGGAGCCCTTAACATGCAAGTCGAGCGGTAGAGAGA	62							
Db	18	CATGGCTCAGATTGAAACGCTGGCGGAGCCCTTAACATGCAAGTCGAGCGGTAAACAGGA	77							
Qy	63	AGCTTGGCTTCTCTT-----GAGAGCGGCGGAGCGGTGAGTAATGCTTAGGAATCTGCCTG	117							
Db	78	AGCAGCTTGGCTCTTTGGCTGACGAGTGGCGGAGCGGTGAGTAATGCTTAGGAATCTGCCTG	137							
Qy	118	GTAGTGGGGGATAAGCTTTCGGAACCGGACGCTTAATACCGCATACGTCCTACCGGAGAAAG	177							
Db	138	ATGGAGGGGATTAATACTGGAACCGGTGGCTAATACCGCATACGTCGCAAGACCAAAAG	197							
Qy	178	CAGGGACCTTTCGGGCTTTCGGCTATCAGATGAGCTTAGTCGGATTAGCTAGTTGGTGA	237							
Db	198	AGGGGACCTTTCGGGCTTTCGGCTATCAGATGAGCTTAGTCGGATTAGCTAGTTAGGTGG	257							
Qy	238	GGTAATGGCTCACCAAGCGGACGATCCGTAACCTGGTCTGAGAGGATGATCAGTCACACTG	297							
Db	258	GGTAACGGCTCACCTAGGCGGACGATCCCTAGCTGGTCTGAGAGGATGACCCACACACTG	317							
Qy	298	GAACTGAGACACGGTCCAGACTCTTACGGGAGCGCAGCTGGGGAATATTGGACAAATGGG	357							
Db	318	AAGCTGAGACACGGTCCAGACTCTTACGGGAGCGCAGCTGGGGAATATTGCACAAATGGG	377							
Qy	358	CGAAAGCCTGATCCAGCCATGCGCGGTGTGAAGAGGTCTTCGGATTGTAAGCACATT	417							
Db	378	CGCAAGCCTGATCCAGCCATGCGCGGTGTGAAGAGGCTTCGGGTTGTAAGTACTT	437							
Qy	418	TAAGTTGGGAGGAAGGTTGTAGATTAACTCTGCAATTTTGACGTTTACCCGACAGAATA	477							
Db	438	TCACGGGGAGGAAGGTTGTGTTGTTAATAACCGCAGCAATTGACGTTACCCGCAAGA	497							
Qy	478	AGCACCGGCTAACTCTGTGCGCAGCAGCGCGTAAATACAGAGGGTGCAGCGTTAATCGG	537							
Db	498	AGCACCGGCTAACTCTGCTGCCAGCAGCGCGTAAATACCGAGGGTGCAGCGTTAATCGG	557							
Qy	538	AATTACTGGGCGTAAAGCGCGGTAGTGGTTTGTAAAGTTGGATGTGAATCCCGGGC	597							
Db	558	AATTACTGGGCGTAAAGCGCAGCAGCGCGTAAAGTAAAGTCAGATGTGAATCCCGGGC	617							
Qy	598	TCAACTGGGAACCTGCATTCAAACCTGACTGACTAGATAGTGTAGAGGGTGGTGAATT	657							
Db	618	TCAACTGGGAACCTGCATCTGATACTGGCAAGCTTGAGTCTCGTAGAGGGGGTGAATT	677							
Qy	658	TCCTGTGTAGCGGTGAATCGTAGATATAGGAAGGAACACAGTGTGCGGAAGCGGACCAC	717							
Db	678	CCAGGTGTAGCGGTGAATCGGTAGATCTGGAGGAATACCGGTGGCGAAGCGGCCCC	737							
Qy	718	CTGGACTAATACTGACACTAGGTGCGAAACGCTGGGAGCAACACAGGATTAGATACCT	777							
Db	738	CTGGACGAAGACTGACGCTCAGGTGCGAAAGCGTGGGAGCAACACAGGATTAGATACCT	797							
Qy	778	GGTAGTCCAGCGCTTAAACCATGTCAACTAGCCGTTGGAAGCCTTTGAGCTTTTAGTGCGG	837							
Db	798	GGTAGTCCAGCGCTTAAACCATGTCTACTTGGAGGTTGTGCCCTTTGAGGCGTGGCTCCG	857							
Qy	838	CAGCTAACGCAATTAAGTTGACCGCTCGGGAGTACGCGCCGCAAGGTTAAACTCAAATGA	897							
Db	858	GAGCTAACGCTTAAAGTAGAGTGTCTTGGGAGTACGCGCCGCAAGGTTAAACTCAAATGA	917							
Qy	898	ATTGACGGGGCCGCAACAGCGGTGGAGCATGTGTTTAATTCGAAGCAACGCGAAGAA	957							
Db	918	ATTGACGGGGCCGCAACAGCGGTGGAGCATGTGTTTAATTCGATCAACGCGAAGAA	977							
Qy	958	CTTTACACAGGCTTGACATCCAAATGAACCTTCTAGAGATAGATTGGTCCCTTCGGGAACA	1017							
Db	978	CTTTACCTGGTCTTGACATCCACAGAACTTTCCAGAGATGAGATTGTGCCCTTCGGGAAC	1037							
Qy	1018	TTGAGACAGGTGCTGATGGCTGTGTCAGCTCGTGGTTGTGAATGTAAAG	1068							
Db	1038	GTGAGACAGGTGCTGATGGCTGTGTCAGCTCGTGGTTGTGAATGTAAAG	1088							

Search completed: September 24, 2004, 09:00:46
Job time : 90.1432 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 24, 2004, 11:55:08 ; Search time 545.047 Seconds
(without alignments)
9943.172 Million cell updates/sec

Title: US-09-737-297-2

Perfect score: 1070

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Gapop 10.0 , Gapext 1.0

Searched: 3337386 seqs, 2532474682 residues

Total number of hits satisfying chosen parameters: 6674772

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	1056.4	98.7	1140	9	US-09-737-297-5
3	990	92.5	1424	15	US-10-007-527A-12
4	990	92.5	1424	15	US-10-007-452-12
5	990	92.5	1424	17	US-10-415-562A-12
6	985.2	92.1	1501	9	US-09-791-592-1
7	985.2	92.1	1501	9	US-09-745-476-1
8	985.2	92.1	1501	9	US-09-821-016-5
9	985.2	92.1	1501	9	US-09-748-205-1
10	985.2	92.1	1501	9	US-09-793-920A-1
11	985.2	92.1	1501	9	US-09-951-720-1
12	985.2	92.1	1501	10	US-09-791-610-1
13	985.2	92.1	1501	13	US-10-649-646-1
14	985.2	92.1	1501	15	US-10-218-519-5

15	985.2	92.1	1501	15	US-10-266-787-5	Sequence 5, Appli
16	985.2	92.1	1501	15	US-10-252-518-5	Sequence 5, Appli
17	985.2	92.1	1501	15	US-10-105-305-1	Sequence 1, Appli
18	985.2	92.1	1501	15	US-10-133-404A-1	Sequence 1, Appli
19	985.2	92.1	1501	15	US-10-242-696-1	Sequence 1, Appli
20	985.2	92.1	1501	16	US-10-411-319-1	Sequence 1, Appli
21	985.2	92.1	1501	17	US-10-603-996-1	Sequence 1, Appli
22	907.4	84.8	1467	9	US-09-726-774-3	Sequence 3, Appli
23	907.4	84.8	1467	17	US-10-719-633-3	Sequence 3, Appli
24	856	80.0	1537	15	US-10-029-397A-46	Sequence 46, Appli
25	832.6	77.8	1481	9	US-09-737-297-4	Sequence 1, Appli
26	830.6	77.6	1486	9	US-09-737-297-1	Sequence 1, Appli
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28	808.2	75.5	1542	17	US-10-361-002-6	Sequence 6, Appli
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31	805.4	75.3	1467	15	US-10-029-397A-47	Sequence 35, Appli
32	803.8	75.1	1534	15	US-10-029-397A-35	Sequence 14, Appli
33	801	74.9	1487	9	US-09-726-774-14	Sequence 14, Appli
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35	793.6	74.7	1485	15	US-10-029-397A-48	Sequence 48, Appli
36	798.8	74.7	1506	9	US-09-027-439-3	Sequence 3, Appli
37	798.4	74.6	1542	10	US-09-940-925A-158	Sequence 158, App
38	798.4	74.6	1542	10	US-09-941-193A-158	Sequence 33, Appli
39	798.4	74.6	1542	15	US-10-061-071-33	Sequence 1, Appli
C 40	798.4	74.6	10903	17	US-10-612-224-1	Sequence 2, Appli
C 41	798.4	74.6	11918	17	US-10-612-224-2	Sequence 3, Appli
42	798.4	74.6	13278	17	US-10-612-224-3	Sequence 7, Appli
43	798.2	74.6	1541	9	US-09-027-439-7	Sequence 4, Appli
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ALIGNMENTS

RESULT 1

US-09-737-297-2

; Sequence 2, Application US/09737297

; Patent No. US20020072108A1

; GENERAL INFORMATION:

; APPLICANT: Berry, Mark

; APPLICANT: Griffiths, Allen

; APPLICANT: Hill, Philip

; APPLICANT: Laybourne-Parry, Johanna

; APPLICANT: Mills, Sarah

; TITLE OF INVENTION: Processes and Organisms for the Production of Antifreeze Proteins

; FILE REFERENCE: F3247

; CURRENT APPLICATION NUMBER: US/09/737,297

; CURRENT FILING DATE: 2000-12-15

; PRIOR APPLICATION NUMBER: GB 9929696.4

; PRIOR FILING DATE: 1999-12-15

; NUMBER OF SEQ ID NOS: 5

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 2

; LENGTH: 1070

; TYPE: DNA

; ORGANISM: Pseudomonas (NCIMB 41076)

US-09-737-297-2

Query Match 100.0%; Score 1070; DB 9; Length 1070;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1070; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GCCTTGTCTCAGATTGAAAGCTGGCGGAGCGCTTAACATGCAAGTCGAGCGGTAGAGA	60
Db	1	GCCTTGTCTCAGATTGAAAGCTGGCGGAGCGCTTAACATGCAAGTCGAGCGGTAGAGA	60
QY	61	GAAGCTTGCTTCTTTGAGAGCGGCGGAGGTTAGTAATGCTTAGCAATCTGCTTGGTA	120
Db	61	GAAGCTTGCTTCTTTGAGAGCGGCGGAGGTTAGTAATGCTTAGCAATCTGCTTGGTA	120
QY	121	GTGGGGGATAACGTTCCGGAACGGACGCTTAATACCCATACGTCCTACGGGAAAGCAG	180

Db 121 GTGGGGGATAACGTTCCGAAACGACGCTATACCGATACGTCCTACCGGAGAAAGCAG 180
Qy 181 GGGACCTTCGGGCGCTTCGGCTATCAGATGAGCCCTAGAGTGGGATAGCTAGTGTGAGGT 240
Db 181 GGGACCTTCGGGCGCTTCGGCTATCAGATGAGCCCTAGAGTGGGATAGCTAGTGTGAGGT 240
Qy 241 AATGGCTCACCAAGCGGAGCGATCCGTTAACTGGTCTGAGAGGATGATCAGTCACTCGAA 300
Db 241 AATGGCTCACCAAGCGGAGCGATCCGTTAACTGGTCTGAGAGGATGATCAGTCACTCGAA 300
Qy 301 CTGACACAGCGTCCAGACTCCTACCGGAGGAGCAGTGGGGAATATTCGAAATCGGCGA 360
Db 301 CTGACACAGCGTCCAGACTCCTACCGGAGGAGCAGTGGGGAATATTCGAAATCGGCGA 360
Qy 361 AAGCCTGATCCAGCCATCGCGTGTGTGAAGAAGTCTTCGGATGTGAAGCACTTTAA 420
Db 361 AAGCCTGATCCAGCCATCGCGTGTGTGAAGAAGTCTTCGGATGTGAAGCACTTTAA 420
Qy 421 GTTGGAGAGAGGTTGTAGATTAATACTCTGCAATTTTGACGTTACCGACAGAAATAGC 480
Db 421 GTTGGAGAGAGGTTGTAGATTAATACTCTGCAATTTTGACGTTACCGACAGAAATAGC 480
Qy 481 ACCGGCTAACTCTGTGCCAGCAGCCGCGTAATACAGAGGTTGCAAGCGTTAATCGGAAT 540
Db 481 ACCGGCTAACTCTGTGCCAGCAGCCGCGTAATACAGAGGTTGCAAGCGTTAATCGGAAT 540
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Db 541 TACTGGGCTAAAGCGCGTGTAGTGTGTTTGTAAAGTGGATGTGAATATCCCGGCTCA 600
Qy 601 ACTGGGAATCGAATTCAAACTGACTGACTAGATGATGATGAGGCGTGTGGAATTTCC 660
Db 601 ACTGGGAATCGAATTCAAACTGACTGACTAGATGATGATGAGGCGTGTGGAATTTCC 660
Qy 661 TGTGTAGCGGTGAATGCGTAGATATAGGAAGAACACCAAGTGGCGAAGCGGACCACTG 720
Db 661 TGTGTAGCGGTGAATGCGTAGATATAGGAAGAACACCAAGTGGCGAAGCGGACCACTG 720
Qy 721 GACTAATCTGACACTGAGTGTGCGAAGCGTGGGAGGAAACAGAGTATGATACCTTGGT 780
Db 721 GACTAATCTGACACTGAGTGTGCGAAGCGTGGGAGGAAACAGAGTATGATACCTTGGT 780
Qy 781 AGTCCAGCGGTAAACGATGTCAACTAGCCTGGAAGCCTTCAGCTTTTGTGGCGCAG 840
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Db 1021 AGACAGGTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG

RESULT 2
US-09-737-297-5
; Sequence 5, Application US/09737297
; Patent No. US2002072108A1
; GENERAL INFORMATION:
; APPLICANT: Berry, Mark
; APPLICANT: Griffiths, Allen
; APPLICANT: Hill, Philip
; APPLICANT: Laybourne-Parry, Johanna

; APPLICANT: Mills, Sarah
; TITLE OF INVENTION: Processes and Organisms for the Production of Antifreeze Proteins
; FILE REFERENCE: F3247
; CURRENT APPLICATION NUMBER: US/09/737,297
; CURRENT FILING DATE: 2000-12-15
; PRIOR APPLICATION NUMBER: GB 9929696.4
; PRIOR FILING DATE: 1999-12-15
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 1140
; TYPE: DNA
; ORGANISM: Pseudomonas synxantha
US-09-737-297-5

Query Match 98.7%; Score 1056.4; DB 9; Length 1140;
Best Local Similarity 99.4%; Pred No. 0;
Matches 1060; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
Qy 3 CTTGCTCAGATTGAACGCTGGCGCAGGCTTAACACATGCAAGTCGAGCGGTAGAGAGA 62
Db 11 CTTGCTCAGATTGAACGCTGGCGCAGGCTTAACACATGCAAGTCGAGCGGTAGAGAGA 70
Qy 63 AGCTTGTCTCTTCGAGAGCGCGGAGCGGTAGGTAATGCGCTAGGAATCTGCTGTAGT 122
Db 71 AGCTTGTCTCTTCGAGAGCGCGGAGCGGTAGGTAATGCGCTAGGAATCTGCTGTAGT 130
Qy 123 GGGGATTAACGTTCCGAAACGACGCTAATACCGCATACGTCCTACGGGAGAAAGCAGG 182
Db 131 GGGGATTAACGTTCCGAAACGACGCTAATACCGCATACGTCCTACGGGAGAAAGCAGG 190
Qy 183 GACCTTCGGGCTTCGCTATCAGATGAGCCCTAGGTCGATAGCTAGTGTGAGGTAA 242
Db 191 GACCTTCGGGCTTCGCTATCAGATGAGCCCTAGGTCGATAGCTAGTGTGAGGTAA 250
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Db 251 TGGCTCACCAAGCGGAGCGTAACTGCTCTGAGAGATGATCAGTCACTGCAACT 310
Qy 303 GAGACACGCTCCAGACTCCTACGGGAGGAGCAGTGGGGAATATTCGAAATGGGCGAAA 362
Db 311 GAGACACGCTCCAGACTCCTACGGGAGGAGCAGTGGGGAATATTCGAAATGGGCGAAA 370
Qy 363 GCCTGATCCAGCGATCCGCGTGTGGAAGAGAGTCTTCGGATGTGAAGCACTTTAAGT 422
Db 371 GCCTGATCCAGCGATCCGCGTGTGGAAGAGAGTCTTCGGATGTGAAGCACTTTAAGT 430
Qy 423 TGGGAGAGGCTGTGATTAATACTCTGCAATTTTGACGTTTACCGACAGATAAGCAC 482
Db 431 TGGGAGAGGCTGTGATTAATACTCTGCAATTTTGACGTTTACCGACAGATAAGCAC 490
Qy 483 CGGCTAACTCTGTGCCAGCAGCGCGGTAATAAGAGGCTGCAAGGTTAATCGGAATTA 542
Db 491 CGGCTAACTCTGTGCCAGCAGCGCGGTAATAAGAGGCTGCAAGGTTAATCGGAATTA 550
Qy 543 CTGGCGGTAAAGCGCGGTAGGTTGTTTAAAGTGGATGTGAATCCCGGCTCAAC 602
Db 551 CTGGCGGTAAAGCGCGGTAGGTTGTTTAAAGTGGATGTGAATCCCGGCTCAAC 610
Qy 603 CTGGGAACTGCAATTCGAACTGCTGCTAGAGTATGCTAGAGGCTGCTGGAATTTTCTG 662
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Qy 663 TGTAGCGGTGAAATGCGTAGATATAGGAAGAAACACAGTGGGAGGCGGACCACTTGGGA 722
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Db 721 TTAGATACCTGCTAGTCCAGCGCTAAACGATGTCAAATAGCGTTGGAGCGTTGAGC 780
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QY 947 AACGGAAGAACTTACCGAGGCTTGCATCAATGAACTTCTAGAGATAGATGGTGC 1006
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QY 1007 CTTCCGGAACATTGAGACAGGTGCTGCATGGCTGCTGAGTGGTGTGAATGTA 1066
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QY 1067 GG 1068
Db 1021 GG 1022

RESULT 6
US-09-791-592-1
; Sequence 1, Application US/09791592
; Patent No. US2001002123A1
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxyalkanoate containing 3-hydroxybenzoylalkanoic acid as
; monomer unit, and method for producing the same.
; FILE REFERENCE: 4396021
; CURRENT APPLICATION NUMBER: US/09/791,592
; CURRENT FILING DATE: 2001-02-26
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-09-791-592-1

Query Match 92.1%; Score 985.2; DB 9; Length 1501;
Best Local Similarity 95.9%; Pred. No. 2.6e-294;
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 15 TGAACGCTGGCGGAGCGGCTTAACATGCAATGCTAGGATCTGCTGCTGCTGCTC 74
Db 1 TGAACGCTGGCGGAGCGGCTTAACATGCAATGCTAGGATCTGCTGCTGCTGCTC 60
QY 75 TTGAGAGCGGCGGAGCGGCTGAGTAATGCTAGGATCTGCTGCTGCTGCTGCTGCT 134
Db 61 AATTACGCTGGCGGAGCGGCTGAGTAATGCTAGGATCTGCTGCTGCTGCTGCTGCT 120
QY 135 TCGGAAACGAGCGCTAATACCGGATAGCTGCTGCGGAGAAAGCAGGGGACCTTCGGGCC 194
Db 121 CTCGAAAGGAGCGCTAATACCGGATAGCTGCTGCGGAGAAAGCAGGGGACCTTCGGGCC 180
QY 195 TTGCGCTATCAGATGAGCGCTGAGTTCGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 254
Db 181 TTGCGCTATCAGATGAGCGCTGAGTTCGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
QY 255 GCGACGATCGCTAATGCTGCTGAGGATGATCAGTCACTGCACTGCACTGAGACACGCTCC 314
Db 241 GCGACGATCGCTAATGCTGCTGAGGATGATCAGTCACTGCACTGAGACACGCTCC 300
QY 315 AGACTCTCAGGAGGAGCGAGTGGGAAATTTGGCAATTTGGCAATTTGGCAATTTGGCAAT 374
Db 301 AGACTCTCAGGAGGAGCGAGTGGGAAATTTGGCAATTTGGCAATTTGGCAATTTGGCAAT 360
QY 375 CATGCCGCTGCTGAGAGGCTTTCGATTTGAAGCACTTTAAGCACTTTAAGCACTTTAAGCA 434
Db 361 CATGCCGCTGCTGAGAGGCTTTCGATTTGAAGCACTTTAAGCACTTTAAGCACTTTAAGCA 420

QY 435 TTGAGATTAATTAATCTGCTGCAATTTTGAAGTTCACGACAGAAATGAACACCGGCTAATCTG 494
Db 421 CATTAACCTAATACGTTAGTGTGTTTGAAGTTCACGACAGAAATGAACACCGGCTAATCTG 480
QY 495 TCCAGCAGCGCGGCTAATACAGAGGCTGCAAGCGTTAATCGGAATTAATCGGCGTAAAG 554
Db 481 TCCAGCAGCGCGGCTAATACAGAGGCTGCAAGCGTTAATCGGAATTAATCGGCGTAAAG 540
QY 555 CCGCGGTAGTGTGTTTGAAGTTCGATGTAATCCCGGCTCAACCTGCGGAACTGCA 614
Db 541 CCGCGGTAGTGTGTTTGAAGTTCGATGTAATCCCGGCTCAACCTGCGGAACTGCA 600
QY 615 TTCAAACTGACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 674
Db 601 TTCAAACTGACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
QY 675 ATGCGTGTAGATAGGAAGGACACCAAGTGGCGAAGCGGACCACTGGACTAATCTGACA 734
Db 661 ATGCGTGTAGATAGGAAGGACACCAAGTGGCGAAGCGGACCACTGGACTAATCTGACA 720
QY 735 CTGAGGTGCGAAGCGTGGGAGCAACAGGATTAAGTACCTGCTAGTCCACGCGTAA 794
Db 721 CTGAGGTGCGAAGCGTGGGAGCAACAGGATTAAGTACCTGCTAGTCCACGCGTAA 780
QY 795 AGGATGCTCACTAGCGGTTGGAGCGTTGAGCTTTAGTGGCGAGCTAAGCTAAGT 854
Db 781 AGGATGCTCACTAGCGGTTGGAGCGTTGAGCTTTAGTGGCGAGCTAAGCTAAGT 840
QY 855 TGACCGCTGGGAGTACCGCGGCAAGGTTAAACTCAATGAATGACGGGGCGCGCA 914
Db 841 TGACCGCTGGGAGTACCGCGGCAAGGTTAAACTCAATGAATGACGGGGCGCGCA 900
QY 915 CAAGCGTGGAGCATGTGTTTAAATTCGAAGCAACGCGAAGCACTTACCAGGCTTGAC 974
Db 901 CAAGCGTGGAGCATGTGTTTAAATTCGAAGCAACGCGAAGCACTTACCAGGCTTGAC 960
QY 975 ATCAATGAATTTCTGAGATAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCA 1034
Db 961 ATCAATGAATTTCTGAGATAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCA 1020
QY 1035 TGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1068
Db 1021 TGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1054

RESULT 7
US-09-745-476-1
; Sequence 1, Application US/09745476
; Patent No. US20010029039A1
; GENERAL INFORMATION:
; APPLICANT: CANON INC.
; TITLE OF INVENTION: Preparation of Poly-hydroxyalkanoic Acid
; FILE REFERENCE: 4351008
; CURRENT APPLICATION NUMBER: US/09/745,476
; CURRENT FILING DATE: 2000-12-26
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: Microsoft Word
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii Pl61 ; FERM P-17445
US-09-745-476-1

Query Match 92.1%; Score 985.2; DB 9; Length 1501;
Best Local Similarity 95.9%; Pred. No. 2.6e-294;
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
QY 15 TGAACGCTGGCGGAGCGGCTTAACATGCAATGCTAGGATCTGCTGCTGCTGCTC 74
Db 1 TGAACGCTGGCGGAGCGGCTTAACATGCAATGCTAGGATCTGCTGCTGCTGCTC 60
QY 75 TTGAGAGCGGCGGAGCGGCTGAGTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 134

195 TTGGCTATACAGATGAGCCTAGGTCGGATTAGCTAGTTGGTGAAGTAATGCTCACCAAG 254
181 TTGGCTATACAGATGAGCCTAGGTCGGATTAGCTAGTTGGTGAAGTAATGCTCACCAAG 240
255 GCGAGGATCCGTAATCGTCTGAGAGGATGATCAGTCACTGGAACCTGAGACAGCGTCC 314
241 GCGACGATCCGTAATCGTCTGAGAGGATGATCAGTCACTGGAACCTGAGACAGCGTCC 300
315 AGACTCTACCGGAGGACGAGTGGGGAATATTGGACAATGGCGGAAGCCTGATCCAGC 374
301 AGACTCTACCGGAGGACGAGTGGGGAATATTGGACAATGGCGGAAGCCTGATCCAGC 360
375 CATGCCGCTGTGTGAAGAGGTCTTCGAGATGTAAGCACTTTAAGTTGGGGAAGGG 434
361 CATGCCGCTGTGTGAAGAGGTCTTCGAGATGTAAGCACTTTAAGTTGGGGAAGGG 420
435 TTGTAGATTAATACCTCTGCAATTTTACGTTACCGACAGAAATAGCAGCGGCTAATCTG 494
421 CATTAACCTAATACCTTTAGTTTGAAGTTGTAAGCACTTTAAGTTGGGGAAGGG 480
495 TGCCAGCAGCGCGGTAAATACAGAGGGTGCAAGCGTTAATCGGAATTTACTGGCGTAAAG 554
481 TGCCAGCAGCGCGGTAAATACAGAGGGTGCAAGCGTTAATCGGAATTTACTGGCGTAAAG 540
555 CGCGGCTAGGTGTTTGAAGTTGATGTAAGTGGATGTAAGCACTTTAAGTTGGGGAAGGG 614
541 CGCGGCTAGGTGTTTGAAGTTGATGTAAGTGGATGTAAGCACTTTAAGTTGGGGAAGGG 600
615 TTCAAACCTAGCTGACTAGATGATGTAAGTGGATGTAAGCACTTTAAGTTGGGGAAGGG 674
601 TTCAAACCTAGCTGACTAGATGATGTAAGTGGATGTAAGCACTTTAAGTTGGGGAAGGG 660
675 ATGCGTAGATATAGGAAGGAACACAGTGGCGAAGCGGACCACTGGACTGATCTGACA 734
661 ATGCGTAGATATAGGAAGGAACACAGTGGCGAAGCGGACCACTGGACTGATCTGACA 720
735 CTGAGTGGGAAGCGTGGGAGCAACAGGATTAGTACCTGCTAGTCCAGCGGTAA 794
721 CTGAGTGGGAAGCGTGGGAGCAACAGGATTAGTACCTGCTAGTCCAGCGGTAA 780
795 AGCATGCTCAACTAGCGTGGGAAGCGTGGAGCTTTAGTGGCGGAGCTAAACGATTAAGT 854
781 AGCATGCTCAACTAGCGTGGGAAGCGTGGAGCTTTAGTGGCGGAGCTAAACGATTAAGT 840
855 TGACCGGCTGGGAGTACCGCGGAGGTTAAACTCAATGATTAAGTCAAGCGGCGGCA 914
841 TGACCGGCTGGGAGTACCGCGGAGGTTAAACTCAATGATTAAGTCAAGCGGCGGCA 900
915 CAAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGGAAGCACTTTACCGGCTTGAC 974
901 CAAGCGGTGAGCATGTGTTTAAATTCGAAGCAACGGAAGCACTTTACCGGCTTGAC 960
975 ATCCAAATGAATTTCTAGATAGATGATGTCCTTCGGGAACATTTGAGACAGGTGCTGCA 1034
961 ATCCAAATGAATTTCTAGATAGATGATGTCCTTCGGGAACATTTGAGACAGGTGCTGCA 1020
1035 TGGCTGTGCTCAGCTGCTGTTGTAATGTAAGG 1068
1021 TGGCTGTGCTCAGCTGCTGCTGAGATGTTGGG 1054

RESULT 11
US-09-951-720-1
; Sequence 1, Application US/09951720
; Patent No. US20020160467A1
; GENERAL INFORMATION:
; APPLICANT: Canon Kabushiki Kaisha
; TITLE OF INVENTION: Polyhydroxyalkanoate and Manufacturing Method Thereof
; FILE REFERENCE: 4477001
; CURRENT APPLICATION NUMBER: US/09/951,720
; CURRENT FILING DATE: 2000-09-14
; PRIOR APPLICATION NUMBER: JP 279900/2000

JP 378827/2000
JP 165238/2001
JP 165509/2001
JP 275063/2001
PRIOR FILING DATE: 2000-09-14
2000-12-13
2001-05-31
2001-05-31
2001-09-11
NUMBER OF SEQ ID NOS: 1
SEQ ID NO 1
LENGTH: 1501
TYPE: DNA
ORGANISM: Pseudomonas jessenii P161 strain.
US-09-951-720-1
Query Match 92.1%; Score 985.2; DB 9; Length 1501;
Best Local Similarity 95.9%; Pred No. 2.6e-294;
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
15 TGAACGCTGGCGGAGGCTTAACATGCAAGTCGAGCGGTAGAGAGAGCTTGCTTCTC 74
1 TGAACGCTGGCGGAGGCTTAACATGCAAGTCGAGCGGTAGAGAGAGCTTGCTTCTC 60
75 TTGAGAGCGGCGGAGGCTGAGTAACTCTAGGAATCTGCTTGGTAGTGGGGGATAACGT 134
61 AATTGAGCGGCGGAGGCTGAGTAACTCTAGGAATCTGCTTGGTAGTGGGGGATAACGT 120
135 TCGGAAACGCGGAGCTTAATACCGCATACGCTCTACGGGAGAAAGCAGGGGACCTTCGGGCC 194
121 CTCGAAAGGAGCGCTTAATACCGCATACGCTCTACGGGAGAAAGCAGGGGACCTTCGGGCC 180
195 TTGCGCTATCAGATGAGCGCTAGTCGGATAGCTAGTGGTAGGTAATGGCTCACCAAG 254
181 TTGCGCTATCAGATGAGCGCTAGTCGGATAGCTAGTGGTAGGTAATGGCTCACCAAG 240
255 GCGACGATCCGTAACTGCTGAGAGGATGATCAGTCACTGGAACCTGAGACACCGTCC 314
241 GCGACGATCCGTAACTGCTGAGAGGATGATCAGTCACTGGAACCTGAGACACCGTCC 300
315 AGACTCTCCTACGGGAGGAGCAGTGGGGAATATTGGACAATGGCGGAAGCCTGATCCAGC 374
301 AGACTCTCCTACGGGAGGAGCAGTGGGGAATATTGGACAATGGCGGAAGCCTGATCCAGC 360
375 CATGCCGCTGTGTGAAGAGGTCTTCGGAATTTGAAGCACTTTAAGTTGGGAGGAGGG 434
361 CATGCCGCTGTGTGAAGAGGTCTTCGGAATTTGAAGCACTTTAAGTTGGGAGGAGGG 420
435 TTGTAGATTAATACCTCTGCAATTTTGAAGCACTTTAAGCAAGCACTTAACTCTG 494
421 CATTAACCTTAATACCTTTAGTTTGAAGCACTTTAAGCAAGCACTTAACTCTG 480
495 TGCCAGCAGCGCGGTAAATACAGAGGCTGCAAGCGTTAATCGGAATTTACTGGGGGTAAAG 554
481 TGCCAGCAGCGCGGTAAATACAGAGGCTGCAAGCGTTAATCGGAATTTACTGGGGGTAAAG 540
555 CGCGGCTAGGTGTTTGAAGTTGATGTAAGTGGATGTAAGCACTTTAAGTTGGGGAAGGG 614
541 CGCGGCTAGGTGTTTGAAGTTGATGTAAGTGGATGTAAGCACTTTAAGTTGGGGAAGGG 600
615 TTCAAACCTAGCTGACTAGATGATGTAAGTGGATGTAAGCACTTTAAGTTGGGGAAGGG 674
601 TTCAAACCTAGCTGACTAGATGATGTAAGTGGATGTAAGCACTTTAAGTTGGGGAAGGG 660
675 ATGCGTAGATATAGGAAGGAACACAGTGGCGAAGCGGACCACTGGACTGATCTGACA 734
661 ATGCGTAGATATAGGAAGGAACACAGTGGCGAAGCGGACCACTGGACTGATCTGACA 720
735 CTGAGTGGCGAAGCGTGGGAGCAACAGGATTAGTACCTGCTAGTCCAGCGGTAA 794
721 CTGAGTGGCGAAGCGTGGGAGCAACAGGATTAGTACCTGCTAGTCCAGCGGTAA 780
795 ACGATGTCAACTAGCGTGGGAAGCGTGGAGCTTTAGTGGCGGAGCTAAACGATTAAGT 854

Db 781 ACATGTCACCTAGCCGTTGGAGCCTTGAGCTCTTAGTGGCGAGCTAACGCAATTAAGT 840
QY 855 TGACCGCCTGGGAGTACGGCCGCAAGGTTAAACTCAAATGAATTAAGCGGGGCCGCA 914
Db 841 TGACCGCCTGGGAGTACGGCCGCAAGGTTAAACTCAAATGAATTAAGCGGGGCCGCA 900
QY 915 CAAGCGGTGGAGCATGCTGTTAAATTCGAAGCAACGCGAAGAACCTTACAGGCCCTTGAC 974
Db 901 CAAGCGGTGGAGCATGCTGTTAAATTCGAAGCAACGCGAAGAACCTTACAGGCCCTTGAC 960
QY 975 ATCCAAATGAACCTTTCAGAGATAGATTGCTGCTTCCGGGAACATTGAGACAGGTGCTGCA 1034
Db 961 ATCCAAATGAACCTTTCAGAGATAGATTGCTGCTTCCGGGAACATTGAGACAGGTGCTGCA 1020
QY 1035 TGGCTGTGCTAGCTGCTGTTGTAATTAAGG 1068
Db 1021 TGGCTGTGCTAGCTGCTGTTGTAATTAAGG 1054
RESULT 12
US-09-791-610-1
; Sequence 1, Application US/09791610
; Publication No. US200301000841
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxyalkanoate containing 3-hydroxybenzoylalkanoic acid as
; monomer unit, and method for producing the same.
; FILE REFERENCE: 4396021
; CURRENT APPLICATION NUMBER: US/09/791,610
; CURRENT FILING DATE: 2002-09-30
; NUMBER OF SEQ ID NOS: 1
; SEQ ID NO 1
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii 161 strain.
US-09-791-610-1
Query Match 92.1%; Score 985.2; DB 10; Length 1501;
Best Local Similarity 95.9%; Pred. No. 2.6e-294;
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
QY 15 TGAACGCTGGCGGACGCTTAACATGCAAGTCAGCGGTAGAGAGAAGCTTCTCTC 74
Db 1 TGAACGCTGGCGGACGCTTAACATGCAAGTCAGCGGTAGAGAGAAGCTTCTCTC 60
QY 75 TTGAGAGCGGCGGACGCTGAGTAATGCTAGGATCTGCTGTAGTGGGAGTAACGT 134
Db 61 AATTTCAGCGCGGACGCTGAGTAATGCTAGGATCTGCTGTAGTGGGAGTAACGT 120
QY 135 TCGGAACGACGCTAATACCGATAGCTCTACGGGAGAAAGCAGGGGACCTTTCGGGCC 194
Db 121 CTCGAAAGGACGCTAATACCGATAGCTCTACGGGAGAAAGCAGGGGACCTTTCGGGCC 180
QY 195 TTGCGCTATCAGATGACCTAGCTAGTTCGATAGTGTGAGTAATGCTCACCAG 254
Db 181 TTGCGCTATCAGATGACCTAGCTAGTTCGATAGTGTGAGTAATGCTCACCAG 240
QY 255 GCGACGATCCGTAACCTGCTGAGAGATGATCAGTCACACTGGAACCTGAGACAGGTCC 314
Db 241 GCGACGATCCGTAACCTGCTGAGAGATGATCAGTCACACTGGAACCTGAGACAGGTCC 300
QY 315 AGACTCTACGGAGGACGAGTGGGAATATTGGAATATGGCAATGGCGAAGCTTCATCCAGC 374
Db 301 AGACTCTACGGAGGACGAGTGGGAATATTGGAATATGGCAATGGCGAAGCTTCATCCAGC 360
QY 375 CATGCGCGTGTGAGAGGCTTTCGATGTAAGCACTTTAAGTTGGGAGGAGG 434
Db 361 CATGCGCGTGTGAGAGGCTTTCGATGTAAGCACTTTAAGTTGGGAGGAGG 420
QY 435 TTGTAGATTAATCTGCAATTTTCAGCTTACCGACAGAAATAGCACCGGCTTAACCTG 494
Db 421 CATTAACCTAATACGTTAGTGTGTTGACGTTACCGACAGAAATAGCACCGGCTTAACCTG 480

QY 495 TGGCAGCAGCCGCGTAAATACAGAGGTCGAAGCGTTAAATCGGAATTAATCGGCGTAAAG 554
Db 481 TGGCAGCAGCCGCGTAAATACAGAGGTCGAAGCGTTAAATCGGAATTAATCGGCGTAAAG 540
QY 555 CCGCGCTAGCTGTTGTTAAAGTTGATGTAATCCCGGGCTCAACCTGGGAATGCA 614
Db 541 CCGCGCTAGCTGTTGTTAAAGTTGATGTAATCCCGGGCTCAACCTGGGAATGCA 600
QY 615 TTCAAACCTGACTGACTAGATGATGATGAGGCTGTTGGAATTTCTCTGTGAGCGGTGA 674
Db 601 TTCAAACCTGACTGACTAGATGATGATGAGGCTGTTGGAATTTCTCTGTGAGCGGTGA 660
QY 675 ATGCGTAGATATAGGAAGAACACCAAGTGGCGAAGCCACCTGGACTAATCTGACA 734
Db 661 ATGCGTAGATATAGGAAGAACACCAAGTGGCGAAGCCACCTGGACTAATCTGACA 720
QY 735 CTGAGCTCGAAAGCGTGGGGAGCAACAGGATTAAGTACCTGCTAGTCCACGCGTAA 794
Db 721 CTGAGCTCGAAAGCGTGGGGAGCAACAGGATTAAGTACCTGCTAGTCCACGCGTAA 780
QY 795 ACATGTCACCTAGCCGTTTGAAGCCTTGAGCTTTAGTGGCGAGCTTAACGCAATTAAGT 854
Db 781 ACATGTCACCTAGCCGTTTGAAGCCTTGAGCTTTAGTGGCGAGCTTAACGCAATTAAGT 840
QY 855 TGACCGCCTGGGAGTACGGCCGCAAGGTTAAACTCAAATGAATTAAGCGGGGCCGCA 914
Db 841 TGACCGCCTGGGAGTACGGCCGCAAGGTTAAACTCAAATGAATTAAGCGGGGCCGCA 900
QY 915 CAAGCGGTGGAGCATGCTGTTAAATTCGAAGCAACGCGAAGAACCTTACAGGCCCTTGAC 974
Db 901 CAAGCGGTGGAGCATGCTGTTAAATTCGAAGCAACGCGAAGAACCTTACAGGCCCTTGAC 960
QY 975 ATCCAAATGAACCTTTCAGAGATAGATTGCTTCCGGGAACATTGAGACAGGTGCTGCA 1034
Db 961 ATCCAAATGAACCTTTCAGAGATAGATTGCTTCCGGGAACATTGAGACAGGTGCTGCA 1020
QY 1035 TGGCTGTGCTAGCTGCTGTTGTAATTAAGG 1068
Db 1021 TGGCTGTGCTAGCTGCTGTTGTAATTAAGG 1054
RESULT 13
US-10-649-646-1
; Sequence 1, Application US/10649646
; Publication No. US20040067576A1
; GENERAL INFORMATION:
; APPLICANT: Canon Inc.
; TITLE OF INVENTION: Polyhydroxynate, Method For Production Thereof And Microorganisms
; FILE REFERENCE: 03500.015001.2
; CURRENT APPLICATION NUMBER: US/10/649,646
; CURRENT FILING DATE: 2003-08-28
; PRIOR APPLICATION NUMBER: JP 11-371863
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 2000-023078
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: JP 2000-023080
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: JP 2000-023083
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: JP 2000-095011
; PRIOR FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: JP 2000-095012
; PRIOR FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: JP 2000-095013
; PRIOR FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: JP 2000-207089
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: JP 2000-207091
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: JP 2000-359789
; PRIOR FILING DATE: 2000-11-27

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 1

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 1

; LENGTH: 1501

; TYPE: DNA

; ORGANISM: Pseudomonas jessenii 161 strain

; US-10-649-646-1

Query Match 92.1%; Score 985.2; DB 13; Length 1501;
Best Local Similarity 95.9%; Pred. No. 2.6e-294;
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 15 TGAACGCTGGCGGCGAGGCTTAACACATCAAGTCGAGCGGTAGAGAGAGCTTGCTTCTC 74
Db 1 TGAACGCTGGCGGCGAGGCTTAACACATCAAGTCGAGCGGTAGAGAGAGCTTGCTTCTC 60
QY 75 TTGAGAGCGGCGAGCGGTGAGTAACTAGCAATCTGCCTGGTGTAGTGGGGGATAACGT 134
Db 61 AATTTCAGCGGCGAGCGGTGAGTAACTAGCAATCTGCCTGGTGTAGTGGGGGATAACGT 120
QY 135 TCGGAAACCGGACGCTTAACCGCATACCGCATACCGCATACCGCATACCGCATACCGCAT 194
Db 121 CTCGAAAGGAGCGCTTAACCGCATACCGCATACCGCATACCGCATACCGCATACCGCAT 180
QY 195 TTGCGCTATCAGATGAGCGCTTAGCTCGGATTTAGCTAGGTAATTCGCTTGGTGGGACACGT 254
Db 181 TTGCGCTATCAGATGAGCGCTTAGCTCGGATTTAGCTAGGTAATTCGCTTGGTGGGACACGT 240
QY 255 GCGAGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACTGGAACCTGAGACACGGTCC 314
Db 241 GCGAGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACTGGAACCTGAGACACGGTCC 300
QY 315 AGACTCTCTACGAGGCGAGCGGTGGGGAATATTTGGACAATGGCGGAAAGCCTGATCCAGC 374
Db 301 AGACTCTCTACGAGGCGAGCGGTGGGGAATATTTGGACAATGGCGGAAAGCCTGATCCAGC 360
QY 375 CATGCCCGCTGTGTGAAGAGGTCTTCGGATTTGAGCTTACCGACAGTAATGAGTGGGAGGAGG 434
Db 361 CATGCCCGCTGTGTGAAGAGGTCTTCGGATTTGAGCTTACCGACAGTAATGAGTGGGAGGAGG 420
QY 435 TTGTAGATTAATCTCTGCAATTTTGAAGTTGAGTGTGAATCCCGGGCTCAACCTGGGAACTGCA 494
Db 421 CATTAACCTTAATCTGTAGTGTGTTGAGCTTACCGACAGTAATGAGTGGGAGGAGG 480
QY 495 TGCACGAGCGCGGTAAATACAGAGGCTGCAAGCGTTTATCGGAATTAATCGGCGGTAAAG 554
Db 481 TGCACGAGCGCGGTAAATACAGAGGCTGCAAGCGTTTATCGGAAATTAATCGGCGGTAAAG 540
QY 555 CGGCGTAGTGTGTTGTTAAGTTGAGTGTGAATCCCGGGCTCAACCTGGGAACTGCA 614
Db 541 CGGCGTAGTGTGTTGTTAAGTTGAGTGTGAATCCCGGGCTCAACCTGGGAACTGCA 600
QY 615 TTCAAACCTGACTGACTAGATATGAGAGGCTGAGTGTGAATTTCTGTGTAGCGGTGAA 674
Db 601 TTCAAACCTGACTGACTAGATATGAGAGGCTGAGTGTGAATTTCTGTGTAGCGGTGAA 660
QY 675 ATCGGTAGATATAGGAAGAACACCACTGGGAAAGGCGACCACTGACTTAATCTGACA 734
Db 661 ATCGGTAGATATAGGAAGAACACCACTGGGAAAGGCGACCACTGACTTAATCTGACA 720
QY 735 CTGAGGTGCGAAGCGTGGGAGCAACACAGGATTAGATACCTCGTGTAGTCCACGCGGTAA 794
Db 721 CTGAGGTGCGAAGCGTGGGAGCAACACAGGATTAGATACCTCGTGTAGTCCACGCGGTAA 780
QY 795 ACGATGTCAATAGCGCTTGGAGCGCTTGTAGCTTTTATGTCGCGCAGCTTAACGCAATTAAGT 854
Db 781 ACGATGTCAATAGCGCTTGGAGCGCTTGTAGCTTTTATGTCGCGCAGCTTAACGCAATTAAGT 840
QY 855 TGACCGCTGGGAGTACGCGCGCAAGGTTAAACTCAATGAATTAATGACGGGCGCGCA 914
Db 841 TGACCGCTGGGAGTACGCGCGCAAGGTTAAACTCAATGAATTAATGACGGGCGCGCA 900

RESULT 14

US-10-218-519-5

; Sequence 5, Application US/10218519

; Publication No. US20030049806A1

; GENERAL INFORMATION:

; APPLICANT: Yano, Tetsuya

; APPLICANT: Imamura, Takeshi

; APPLICANT: Suda, Sakae

; APPLICANT: Honma, Tsutomu

; TITLE OF INVENTION: Polynhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme

; FILE REFERENCE: 03500.015225.1

; CURRENT APPLICATION NUMBER: US/10/218,519

; CURRENT FILING DATE: 2001-03-30

; PRIOR APPLICATION NUMBER: 09/821,016

; PRIOR FILING DATE: 2001-03-30

; NUMBER OF SEQ ID NOS: 11

; SOFTWARE: Microsoft Word

; SEQ ID NO 5

; LENGTH: 1501

; TYPE: DNA

; ORGANISM: Pseudomonas jessenii P161 ; BP-7376

; FEATURE: cDNA to 16S rRNA

US-10-218-519-5

Query Match 92.1%; Score 985.2; DB 15; Length 1501;
Best Local Similarity 95.9%; Pred. No. 2.6e-294;
Matches 1011; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 15 TGAACGCTGGCGGCGAGGCTTAACACATCAAGTCGAGCGGTAGAGAGAGCTTGCTTCTC 74
Db 1 TGAACGCTGGCGGCGAGGCTTAACACATCAAGTCGAGCGGTAGAGAGAGCTTGCTTCTC 60
QY 75 TTGAGAGCGGCGAGCGGTGAGTAACTAGCAATCTGCCTGGTGTAGTGGGGGATAACGT 134
Db 61 AATTTCAGCGGCGAGCGGTGAGTAACTAGCAATCTGCCTGGTGTAGTGGGGGATAACGT 120
QY 135 TCGGAAACCGGACGCTTAATACCGCATACCGCATACCGCATACCGCATACCGCATACCGCAT 194
Db 121 CTCGAAAGGAGCGCTTAATACCGCATACCGCATACCGCATACCGCATACCGCATACCGCAT 180
QY 195 TTGCGCTATCAGATGAGCGCTTAGCTCGGATTTAGCTAGGTAATTCGCTTGGTGGGACACAG 254
Db 181 TTGCGCTATCAGATGAGCGCTTAGCTCGGATTTAGCTAGGTAATTCGCTTGGTGGGACACAG 240
QY 255 GCGACGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACTGGAACCTGAGACACGGTCC 314
Db 241 GCGACGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACTGGAACCTGAGACACGGTCC 300
QY 315 AGACTCTCTACGAGGCGAGCGGTGGGGAATATTTGGACAATGGCGGAAAGCCTGATCCAGC 374
Db 301 AGACTCTCTACGAGGCGAGCGGTGGGGAATATTTGGACAATGGCGGAAAGCCTGATCCAGC 360
QY 375 CATGCCCGCTGTGTGAAGAGGTCTTCGGATTTGAGCTTAAAGCACTTTAAGTGGGAGGAGG 434
Db 361 CATGCCCGCTGTGTGAAGAGGTCTTCGGATTTGAGCTTAAAGCACTTTAAGTGGGAGGAGG 420
QY 435 TTGTAGATTAATCTCTGCAATTTTGAAGTTGAGTGTGAATCCCGGGCTCAACCTGGGAACTGCA 494
Db 421 CATTAACCTTAATCTGTAGTGTGTTGAGCTTACCGACAGTAATGAGTGGGAGGAGG 480

Qy	495	TGCCAGCAGCCGCGTAAATACAGAGGGTCAACGGTTAAATCGGAATTTACTGGCGTAAAG	554
Db	481	TGCCAGCAGCCGCGTAAATACAGAGGGTGCACGGTTAATCGGAATTTCTGGCGTAAAG	540
Qy	555	CGCGGTAGGTGGTTTGTTAAGTTGGATGTGAAATCCCGGGCTCAACTGGGAATCGCA	614
Db	541	CGCGGTAGGTGGTTTGTTAAGTTGGATGTGAAAGCCCGGGCTCAACTGGGAATCGCA	600
Qy	615	TTCAAACTGACTGACTAGAGTATGTTAGAGGGTGGTGGAAATTCCTGTGTAGCGGTGAA	674
Db	601	TTCAAACTGACAGCTAGAGTATGTTAGAGGGTGGTGGAAATTCCTGTGTAGCGGTGAA	660
Qy	675	ATGCGTAGATATAGGAAGGAACACCAAGTGGCGAAGCGACCACTGGAGCTAATCTGACA	734
Db	661	ATGCGTAGATATAGGAAGGAACACCAAGTGGCGAAGCGACCACTGGAGCTAATCTGACA	720
Qy	735	CTGAGGTGGAAGCGTGGGGAGCAACAGGATTAGATACCTGTGTAGTCCACGCCGTAA	794
Db	721	CTGAGGTGGAAGCGTGGGGAGCAACAGGATTAGATACCTGTGTAGTCCACGCCGTAA	780
Qy	795	ACGATGTCAACTAGCCGTTTGGGAAGCCTTGAGCTTTTGTGGCGCAGCTAAGCGATTAGT	854
Db	781	ACGATGTCAACTAGCCGTTTGGGAGCCTTGAGCTTTTGTGGCGCAGCTAAGCGATTAGT	840
Qy	855	TGACCGCCTGGGGAGTAGCGCCGCAAGGTTAAACTCAAATGAATGACGGGGGCCCGCA	914
Db	841	TGACCGCCTGGGGAGTAGCGCCGCAAGGTTAAACTCAAATGAATGACGGGGGCCCGCA	900
Qy	915	CAAGCGGTGGAGCATGTGGTTTAAATTCGAAGCAACGCGAAGAACTTACAGGCTTGAC	974
Db	901	CAAGCGGTGGAGCATGTGGTTTAAATTCGAAGCAACGCGAAGAACTTACAGGCTTGAC	960
Qy	975	ATCCAAATGAACCTTCTAGAGTAGAATGGTGCCCTTCGGGAAACATTTGAGACAGGTGCTGCA	1034
Db	961	ATCCAAATGAACCTTCCAGAGATGGATGGTGCCCTTCGGGAAACATTTGAGACAGGTGCTGCA	1020
Qy	1035	TGGCTGTGCTCAGCTCGTGTGTGAAATGTAAAG	1068
Db	1021	TGGCTGTGCTCAGCTCGTGTGCTGAGATGTGGG	1054

RESULT 15

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US-10-266-787-5
; Sequence 5, Application US/10266787
; Publication No. US20030082777A1
; GENERAL INFORMATION:
; APPLICANT: Yano, Tetsuya
; APPLICANT: Imamura, Takeshi
; APPLICANT: Suda, Sakae
; APPLICANT: Honma, Tsutomu
; TITLE OF INVENTION: Polyhydroxyalkanoate Synthase and Gene Encoding the Same Enzyme
; FILE REFERENCE: 03500.015225.3
; CURRENT APPLICATION NUMBER: US/10/266,787
; CURRENT FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: JP 2000-095004
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Word
; SEQ ID NO 5
; LENGTH: 1501
; TYPE: DNA
; ORGANISM: Pseudomonas jessenii P161 ; BP-7376
; FEATURE:
; FEATURE: cDNA to 16S rRNA
US-10-266-787-5

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Db	1	TGAACGCTGGCGGACGCGCTTAAACAATGCAAGTCGAGCGGATGACGCGGAGACTTGCTCCTG	60
QY	75	TTGAGAGCGGCGGACGGGTGAGTAATGCTTAGGAATCTGCTCGTACTGCGGGGATACAGT	134
Db	61	AATTACGCGCGGACGCGGTGAGTAATGCCCTAGGAATCTGCTCGTAGTGGGGACAAACGT	120
QY	135	TGGAAACCGACGCTTAATACCGGATACGTCCTACGGGAGAAACAGGGGACCTTTCGGGCC	194
Db	121	CTCGAAAGGGAGCGCTAATACCGCATACGTCCTACGGGAGAAACAGGGGACCTTTCGGGCC	180
QY	195	TTGCGCTATCAGATGAGCCTAGTCCGATTAGCTAGTTCGTGAGGTAAATGGCTCACCAG	254
Db	181	TTGCGCTATCAGATGAGCCTAGTCCGATTAGCTAGTTCGTGAGGTAAATGGCTCACCAG	240
QY	255	GGACGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACACTGGAACTCAGACACGCGTCC	314
Db	241	GGAGCGATCCGTAACCTGGTCTCAGAGGATGATCAGTCACACTGGAACTCAGACACGCGTCC	300
QY	315	AGACTCTACGGGAGCGACGATGGGGATATTTGGACAATGGCGGAAACGCTGATCCAGC	374
Db	301	AGACTCTACGGGAGCGACGATGGGGATATTTGGACAATGGCGGAAACGCTGATCCAGC	360
QY	375	CATGCCGCTGTGTGAAGAAAGTCTTCGGATTGTAAAGCACCTTAAAGTTGGGAGGAGGG	434
Db	361	CATGCCGCTGTGTGAAGAAAGTCTTCGGATTGTAAAGCACCTTAAAGTTGGGAGGAGGG	420
QY	435	TTGTAGATTATATCTCTCGAATTTTGAAGTACCACAGAAATPAAGCACCGGCTAACTCTG	494
Db	421	CATTAACTTAATACGTTAGTGTTTTACGTTTACCGACAGAAATPAAGCACCGGCTAACTCTG	480
QY	495	TGCACGACCGCGGTAAATACAGAGGGTGCAAGCGTTAATCGGAATTAAGTGGCGCTAAAG	554
Db	481	TGCACGACCGCGGTAAATACAGAGGGTGCAAGCGTTAATCGGAATTAAGTGGCGCTAAAG	540
QY	555	CGCGGTAGGTGGTTGTGTAAGTTGGATTGGAATCCCGCGGCTCAACCTGGAACTGCA	614
Db	541	CGCGGTAGGTGGTTGTGTAAGTTGGATTGGAAGCCCGCGGCTCAACCTGGAACTGCA	600
QY	615	TTCAAAACTGACTACATAGATGATGTAGAGGGTGAGGGTGGTGGAAATTCCTGTGAGCGGTAA	674
Db	601	TTCAAAACTGCAAGCTAGATGATGTAGAGGGTGAGGGTGGTGGAAATTCCTGTGAGCGGTAA	660
QY	675	ATCGGTAGATATAGGAAGGAACAACAGCTGGCGGAAGCGACACCTGGACTAATACTGACA	734
Db	661	ATCGGTAGATATAGGAAGGAACAACAGCTGGCGGAAGCGACACCTGGACTAATACTGACA	720
QY	735	CTGAGGTGCGAAGCGTGGGAGCAAAACAGATTAGATACCTGGTAGTCCACCGGTAA	794
Db	721	CTGAGGTGCGAAGCGTGGGAGCAAAACAGATTAGATACCTGGTAGTCCACCGGTAA	780
QY	795	ACGATGTCAACTAGCCGTTGGAAGCCTTGAGCTTTTGTGCGCGCAGCTAACGCAATTAAGT	854
Db	781	ACGATGTCAACTAGCCGTTGGAAGCCTTGAGCTTTTGTGCGCGCAGCTAACGCAATTAAGT	840
QY	855	TGACCGCTGGGAGTACGCGCCGAAGGTTAAAACTCAAAATGAATTTGACCGGGGCGCGCA	914
Db	841	TGACCGCTGGGAGTACGCGCCGAAGGTTAAAACTCAAAATGAATTTGACCGGGGCGCGCA	900
QY	915	CAAGCGTGGAGCATGTGTTTAAATTTGGAAGCAACGGGAAGAACCTTTACAGCGCTTGAC	974
Db	901	CAAGCGTGGAGCATGTGTTTAAATTTGGAAGCAACGGGAAGAACCTTTACAGCGCTTGAC	960
QY	975	ATCCAAATGAACCTTTCTAGAGATAGATTGTGTGTCCTTCGGGAAACATTTGAGACAGTGTGCA	1034
Db	961	ATCCAAATGAACCTTTCTAGAGATAGATTGTGTGTCCTTCGGGAAACATTTGAGACAGTGTGCA	1020
QY	1035	TGCGTCTCGTCACTCGTGTGTGGAATGTAAAGG	1068
Db	1021	TGCGTCTCGTCACTCGTGTGTGGAATGTGGA	1054

Search completed: September 24, 2004, 22:50:25
Job time : 547.047 secs

us-09-737-297-2.sep04.rnpb

Mon Sep 27 07:47:17 2004

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 24, 2004, 19:51:40 ; Search time 71 Seconds
(without alignments)
72.464 Million cell updates/sec

Title: US-09-737-297-3

Perfect score: 79

Sequence: 1 AEGSTXDYVQNIQYAG 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1349238 seqs, 321558718 residues

Total number of hits satisfying chosen parameters: 1349238

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
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4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
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10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
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15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	77	97.5	16	9	US-09-737-297-3
2	43	54.4	380	15	US-10-369-493-18356
3	41	51.9	191	14	US-10-307-441-11
4	41	51.9	583	14	US-10-289-757-79
5	40	50.6	456	9	US-09-815-242-10870
6	40	50.6	716	9	US-09-845-157-2
7	40	50.6	724	15	US-10-369-493-5134
8	39	49.4	440	15	US-10-369-493-8931
9	39	49.4	623	12	US-10-282-122A-60382
10	38.5	48.7	813	9	US-09-764-898-197
11	38	48.1	105	9	US-09-864-761-34387
12	38	48.1	234	12	US-10-425-114-64051
13	38	48.1	290	9	US-09-939-980-462
14	38	48.1	313	14	US-10-213-990-72
15	38	48.1	323	12	US-10-282-122A-54262

16	38	48.1	445	12	US-10-282-122A-57306	Sequence 57306, A
17	38	48.1	497	12	US-10-282-122A-43955	Sequence 43955, A
18	38	48.1	497	14	US-10-358-917-14	Sequence 14, Appl
19	37.5	47.5	70	16	US-10-716-029-240	Sequence 240, Appl
20	37.5	47.5	146	9	US-09-730-617-74	Sequence 74, Appl
21	37.5	47.5	149	9	US-09-730-617-68	Sequence 68, Appl
22	37.5	47.5	149	9	US-09-730-617-69	Sequence 69, Appl
23	37.5	47.5	149	9	US-09-730-617-70	Sequence 70, Appl
24	37.5	47.5	157	9	US-09-976-472-2	Sequence 2, Appl
25	37.5	47.5	157	12	US-10-072-012-647	Sequence 647, Appl
26	37.5	47.5	157	14	US-10-139-833-17	Sequence 17, Appl
27	37.5	47.5	157	14	US-10-139-947-2	Sequence 2, Appl
28	37.5	47.5	170	9	US-09-730-617-10	Sequence 10, Appl
29	37.5	47.5	170	9	US-09-730-617-77	Sequence 77, Appl
30	37	46.8	78	12	US-10-424-599-231473	Sequence 231473, A
31	37	46.8	96	12	US-10-282-122A-48490	Sequence 48490, A
32	37	46.8	189	14	US-10-307-441-12	Sequence 12, Appl
33	37	46.8	211	14	US-10-237-386-18	Sequence 18, Appl
34	37	46.8	211	14	US-10-237-386-19	Sequence 19, Appl
35	37	46.8	227	14	US-10-237-386-55	Sequence 55, Appl
36	37	46.8	240	14	US-10-237-386-38	Sequence 38, Appl
37	37	46.8	242	14	US-10-237-386-41	Sequence 41, Appl
38	37	46.8	301	9	US-09-738-626-6650	Sequence 6650, Ap
39	37	46.8	365	15	US-10-289-762-371	Sequence 371, Appl
40	37	46.8	423	15	US-10-369-493-23238	Sequence 23238, A
41	37	46.8	424	15	US-10-369-493-16517	Sequence 16517, A
42	37	46.8	430	12	US-10-282-122A-46780	Sequence 46780, A
43	37	46.8	447	15	US-10-312-273-241	Sequence 241, Appl
44	37	46.8	558	16	US-10-437-963-198128	Sequence 198128, A
45	37	46.8	583	14	US-10-289-757-83	Sequence 83, Appl

ALIGNMENTS

RESULT 1

US-09-737-297-3
; Sequence 3, Application US/09737297
; Patent No. US20020072108A1
; GENERAL INFORMATION:
; APPLICANT: Berry, Mark
; APPLICANT: Griffiths, Allen
; APPLICANT: Hill, Philip
; APPLICANT: Laybourne-Parry, Johanna
; APPLICANT: Mills, Sarah
; TITLE OF INVENTION: Processes and Organisms for the Production of Antifreeze Proteins
; FILE REFERENCE: F3247
; CURRENT APPLICATION NUMBER: US/09/737,297
; CURRENT FILING DATE: 2000-12-15
; PRIOR APPLICATION NUMBER: GB 9929696.4
; PRIOR FILING DATE: 1999-12-15
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Marinomonas protea
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (6)..(6)
; OTHER INFORMATION: residue 6 is G or V
US-09-737-297-3

Query Match 97.5%; Score 77; DB 9; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.8e-06;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AEGSTXDYVQNIQYAG 16

Db 1 AEGSTXDYVQNIQYAG 16

RESULT 2

Query Match 50.6%; Score 40; DB 9; Length 456;
Best Local Similarity 46.7%; Pred. No. 1.6e+02;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 EGSTXDVTQNIQYAG 16
||||| :
Db 255 EGGSFVDVYHKADFVG 269

RESULT 6

US-09-845-157-2
; Sequence 2, Application US/09845157
; Patent No. US20020090618A1
; GENERAL INFORMATION:
; APPLICANT: Smith, J.
; TITLE OF INVENTION: Thermostable Reverse Transcriptases and Uses Thereof
; FILE REFERENCE: 0942:5040001
; CURRENT APPLICATION NUMBER: US/09/845,157
; CURRENT FILING DATE: 2001-05-01
; PRIOR APPLICATION NUMBER: US 60//207,196
; PRIOR FILING DATE: 2000-05-26
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 716
; TYPE: PRT
; ORGANISM: M-MLV reverse transcriptase gene
US-09-845-157-2

Query Match 50.6%; Score 40; DB 9; Length 716;
Best Local Similarity 53.3%; Pred. No. 2.6e+02;
Matches 8; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 AEGSTXDVTQNIQYA 15
||||| :
Db 606 AEGKKLVYNTSRYA 620

RESULT 7

US-10-369-493-5134
; Sequence 5134, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10/52052/B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 5134
; LENGTH: 724
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-369-493-5134

Query Match 50.6%; Score 40; DB 15; Length 724;
Best Local Similarity 66.7%; Pred. No. 2.6e+02;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 AEGSTXDVTQNI 12
||||| :
Db 230 AEGSTSDVLQTL 241

RESULT 8

US-10-369-493-8931
; Sequence 8931, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei

; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10/52052/B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 8931
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Chloroflexus aurantiacus
US-10-369-493-8931

Query Match 49.4%; Score 39; DB 15; Length 440;
Best Local Similarity 53.8%; Pred. No. 2.3e+02;
Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 4 STXDVTQNIQYAG 16
||||| :
Db 143 NTEDVTGTGIEYRG 155

RESULT 9

US-10-282-122A-60382
; Sequence 60382, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 60382
; LENGTH: 623

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; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-10-282-122A-60382

Query Match          49.4%; Score 39; DB 12; Length 623;
Best Local Similarity 50.0%; Pred. No. 3.3e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 EGSTXDYVQNIQ 13
    :||| | | :
Db 59 DGSTTDYVERLQ 70

RESULT 10
US-09-764-898-197
; Sequence 197, Application US/09764898
; Patent No. US20020090673A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PJ201
; CURRENT APPLICATION NUMBER: US/09/764,898
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 311
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 197
; LENGTH: 813
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-898-197

Query Match          48.7%; Score 38.5; DB 9; Length 813;
Best Local Similarity 47.1%; Pred. No. 5.4e+02;
Matches 8; Conservative 4; Mismatches 4; Indels 1; Gaps 1;

Qy 1 AEG-STXDYVQNIQVAG 16
    ||| | | | | |
Db 103 AKGRKVADLYELVQVAG 119

RESULT 11
US-09-864-761-34387
; Sequence 34387, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeonica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
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; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 34387
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC007869.1
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 5.6
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 5.8
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.8
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 3.8
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.8
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2
; OTHER INFORMATION: EST_HUMAN HIT: BE086814.1, EVALUE 2.00e-36
; OTHER INFORMATION: SWISSPROT HIT: P21414, EVALUE 2.00e-27
US-09-864-761-34387

Query Match          48.1%; Score 38; DB 9; Length 105;
Best Local Similarity 46.7%; Pred. No. 74;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 AEGSTXDYVQNIQYA 15
    :||| | | :
Db 41 SEGKTWNTYTDQYA 55

RESULT 12
US-10-425-114-64051
; Sequence 64051, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 64051
; LENGTH: 234
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3279-175-F1_FLI.pgp
US-10-425-114-64051
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Query Match 48.1%; Score 38; DB 12; Length 234;
Best Local Similarity 75.0%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 9 YONIQVAG 16
DB 188 FQNLQVAG 195

RESULT 13
US-09-939-980-462
; Sequence 462, Application US/09939980
; Patent No. US20020082234A1
; GENERAL INFORMATION:
; APPLICANT: Black, Michael
; Burnham, Martin
; Hodgson, John
; Knowles, David
; Lonetto, Michael
; Nicholas, Richard
; Pratt, Julie
; Reichard, Richard
; Rosenberg, Martin
; Ward, Judith
; TITLE OF INVENTION: No. US20020082234A1el Prokaryotic Polynucleotides,
; Polypeptides and Their Uses
; NUMBER OF SEQUENCES: 534
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406-0939
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/939,980
; FILING DATE: 27-Aug-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/936,165
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Gimmi, Edward R.
; REGISTRATION NUMBER: 38,891
; REFERENCE/DOCKET NUMBER: P50549
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-4478
; TELEFAX: 610-270-5090
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 462:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 290 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 462:

Query Match 48.1%; Score 38; DB 9; Length 290;
Best Local Similarity 40.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;
QY 2 EGSTXDYVYQNIQVAG 16
DB 82 DGTIDLYEGIKETG 96

RESULT 14
US-10-213-990-72
; Sequence 72, Application US/10213990
; Publication No. US20030082595A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Bussey, Howard
; APPLICANT: Storms, Reg
; APPLICANT: Roemer, Terry
; TITLE OF INVENTION: NUCLEIC ACIDS OF ASPERGILLUS FUMIGATUS ENCODING INDUSTRIAL
; TITLE OF INVENTION: ENZYMES AND METHODS OF USE
; FILE REFERENCE: 10182-019-999
; CURRENT APPLICATION NUMBER: US/10/213,990
; CURRENT FILING DATE: 2002-08-05
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 72
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Aspergillus
; US-10-213-990-72

Query Match 48.1%; Score 38; DB 14; Length 313;
Best Local Similarity 46.2%; Pred. No. 2.4e+02;
Matches 6; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
QY 1 AEGSTXDYVYQNIQ 13
DB 143 SDGSTDYIYEHQQ 155

RESULT 15
US-10-282-122A-54262
; Sequence 54262, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlson, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16

Mon Sep 27 07:47:19 2004

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 54262
 ; LENGTH: 323
 ; TYPE: PRT
 ; ORGANISM: Campylobacter jejuni
 US-10-282-122A-54262

Query Match 48.1%; Score 38; DB 12; Length 323;
 Best Local Similarity 56.2%; Pred. NO. 2.5e+02;
 Matches 9; Conservative 2; Mismatches 3; Indels 2; Gaps 1;

Qy 1 AEGSTXDYVQNIQYAG 16
 |||: ||| |:
 Db 277 AEGAAIDVY--IRYLG 290

Search completed: September 24, 2004, 23:14:18
 Job time : 72 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 24, 2004, 19:48:36 ; Search time 21 Seconds
(without alignments)
39.334 Million cell updates/sec

Title: US-09-737-297-3

Perfect score: 79

Sequence: 1 AEGSTXDYVQNIQYAG 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	41	51.9	191	1	US-08-044-621D-35
2	41	51.9	191	1	US-08-709-912-11
3	41	51.9	191	2	US-09-047-370-11
4	41	51.9	216	1	US-08-315-695-20
5	41	51.9	240	4	US-09-570-856B-16
6	39	49.4	201	4	US-09-311-311C-21
7	39	49.4	313	4	US-09-551-826D-14
8	39	49.4	1260	4	US-09-328-352-6746
9	38.5	48.7	796	3	US-09-005-180A-1
10	38	48.1	200	1	US-07-744-570B-2
11	38	48.1	230	4	US-08-936-165A-462
12	38	48.1	291	4	US-09-252-991A-20970
13	38	48.1	365	4	US-09-328-352-7027
14	38	48.1	455	4	US-09-134-000C-4582
15	38	48.1	927	4	US-09-107-532A-4335
16	37	46.8	79	4	US-09-543-681A-6239
17	37	46.8	104	1	US-07-978-692-4
18	37	46.8	189	1	US-08-044-621D-33
19	37	46.8	189	1	US-08-709-912-12
20	37	46.8	189	2	US-09-047-370-12
21	37	46.8	200	3	US-08-275-526C-24
22	37	46.8	200	4	US-09-076-677-24
23	37	46.8	200	1	US-09-073-055-24
24	37	46.8	211	1	US-08-575-964-1
25	37	46.8	211	2	US-08-963-500-1
26	37	46.8	227	3	US-08-275-526C-31
27	37	46.8	227	4	US-09-076-677-31

28 37 46.8 227 4 US-09-073-055-31 Sequence 31, Appl
29 37 46.8 365 4 US-09-198-452A-371 Sequence 371, App
30 37 46.8 728 4 US-09-711-164-300 Sequence 300, App
31 36 45.6 121 4 US-09-134-000C-4431 Sequence 4431, Ap
32 36 45.6 185 4 US-09-570-856B-11 Sequence 11, Appl
33 36 45.6 185 4 US-09-570-856B-12 Sequence 12, Appl
34 36 45.6 189 1 US-08-709-912-13 Sequence 13, Appl
35 36 45.6 189 2 US-09-134-000C-4081 Sequence 4081, Ap
36 36 45.6 431 4 US-09-328-352-7392 Sequence 7392, Ap
37 36 45.6 431 4 US-08-870-827-3 Sequence 3, Appl
38 36 45.6 455 2 US-09-317-179-3 Sequence 3, Appl
39 36 45.6 455 4 US-09-489-039A-10179 Sequence 10179, A
40 36 45.6 863 4 US-08-840-062-5 Sequence 5, Appl
41 36 45.6 1455 3 US-09-976-594-168 Sequence 168, App
42 36 45.6 1456 4 US-08-323-170B-2 Sequence 2, Appl
43 36 45.6 3135 1 US-08-954-441-2 Sequence 2, Appl
44 36 45.6 3135 4 US-09-252-991A-28763 Sequence 28763, A
45 35 44.3 98 4

ALIGNMENTS

RESULT 1
US-08-044-621D-35
; Sequence 35, Application US/08044621D
; Patent No. 5405769
; GENERAL INFORMATION:
; APPLICANT: Warren W. Wakarchuk
; APPLICANT: Wing L. Sung
; APPLICANT: Makoto Yaguchi
; APPLICANT: Robert L. Campbell
; APPLICANT: David R. Rose
; TITLE OF INVENTION: CONSTRUCTION OF THERMOSTABLE MUTANTS
; OF A LOW MOLECULAR MASS XYLANASE
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Gowling, Strathy & Henderson
; STREET: Suite 2600, 160 Elgin Street
; CITY: Ottawa
; STATE: Ontario
; COUNTRY: Canada
; ZIP: K1P 1C3
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 in., 360kB storage
; COMPUTER: IBM PC
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/044,621D
; FILING DATE: April 8, 1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Judy A. Erratt
; REGISTRATION NUMBER: 34,076
; REFERENCE/DOCKET NUMBER: 08-863796
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 613-786-0199
; TELEFAX: 613-563-9869
; TELEX:
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191
; TYPE: Amino Acid
; STRANDEDNESS: No. 5405769 Relevant
; TOPOLOGY: linear
; MOLECULE TYPE:
; DESCRIPTION: protein
; HYPOTHETICAL: No
; ANTI-SENSE: No

```

;
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Streptomyces lividans
; STRAIN: Xln C
; PUBLICATION INFORMATION:
; AUTHORS: Shareck, F
; AUTHORS: Roy, C
; AUTHORS: Yaguchi, M
; AUTHORS: Morosoli, R
; AUTHORS: Kluepfel, D
; JOURNAL: Gene
; VOLUME: 107
; PAGES: 75-82
; DATE: 1991
;
US-08-709-912-11

Query Match 51.9%; Score 41; DB 1; Length 191;
Best Local Similarity 42.9%; Pred. No. 4.9;
Matches 6; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 AEGSTYDVYQNIQY 14
::|||:|||:::|
DB 107 SDGGTYDIYQTTY 120

RESULT 3
US-09-047-370-11
; Sequence 11, Application US/09047370
; Patent No. 5866408
; GENERAL INFORMATION:
; APPLICANT: Sung Dr., Wing L
; APPLICANT: Yaguchi Dr., Makoto
; APPLICANT: Ishikawa Dr., Kazuhiko
; TITLE OF INVENTION: Modification of Xylanase to Improve
; TITLE OF INVENTION: Thermophilicity, Alkalophilicity and
; TITLE OF INVENTION: Thermostability
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Fitzpatrick, Cella, Harper, and Scinto
; STREET: 277 Park Ave.
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10172-0194
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/047,370
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/709,912
; FILING DATE: 09-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Olsen Mr, Warren E
; REGISTRATION NUMBER: 27290
; REFERENCE/DOCKET NUMBER: 1039.2000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-2400
; TELEFAX: (212) 758-2982
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO

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; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Streptomyces lividans
; STRAIN: Xln C
; PUBLICATION INFORMATION:
; AUTHORS: Shareck, F
; AUTHORS: Roy, C
; AUTHORS: Yaguchi, M
; AUTHORS: Morosoli, R
; AUTHORS: Kluepfel, D
; JOURNAL: Gene
; VOLUME: 107
; PAGES: 75-82
; DATE: 1991
; US-09-047-370-11

Query Match 51.9%; Score 41; DB 2; Length 191;
Best Local Similarity 42.9%; Pred. No. 4.9;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 AEGSTXDYVYQNIQY 14
Db 107 SDGGTYDIYQITRY 120

RESULT 4
US-08-315-695-20
; Sequence 20, Application US/08315695
; Patent No. 5591619
; GENERAL INFORMATION:
; APPLICANT: Li, Kin-Liang
; APPLICANT: Ljungdahl, Lars G.
; TITLE OF INVENTION: Aureobasidium Pullulans Xylanase, Gene
; TITLE OF INVENTION: and Signal Sequence
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee and Winner, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: CO
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/315,695
; FILING DATE: 30-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Winner, Ellen P.
; REGISTRATION NUMBER: 28,547
; REFERENCE/DOCKET NUMBER: 55-94
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 216 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; US-08-315-695-20

Query Match 51.9%; Score 41; DB 1; Length 216;
Best Local Similarity 42.9%; Pred. No. 5.6;

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Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 AEGSTXDYVYQNIQY 14
Db 133 SDGGTYDIYQITRY 146

RESULT 5
US-09-570-856B-16
; Sequence 16, Application US/09570856B
; Patent No. 6682923
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg M
; APPLICANT: Dahiyat, Bassil I
; TITLE OF INVENTION: NOVEL THERMOSTABLE ALKALIPHILIC XYLANASE
; FILE REFERENCE: A-67478-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/570,856B
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: US 60/133,714
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Streptomyces lividans
; US-09-570-856B-16

Query Match 51.9%; Score 41; DB 4; Length 240;
Best Local Similarity 42.9%; Pred. No. 6.4;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 AEGSTXDYVYQNIQY 14
Db 156 SDGGTYDIYQITRY 169

RESULT 6
US-09-311-311C-21
; Sequence 21, Application US/09311311C
; Patent No. 6358738
; GENERAL INFORMATION:
; APPLICANT: Erikson, et al.
; TITLE OF INVENTION: POLO BOX THERAPEUTIC COMPOSITIONS,
; TITLE OF INVENTION: METHODS, AND USES THEREFOR
; FILE REFERENCE: 1874/117
; CURRENT APPLICATION NUMBER: US/09/311,311C
; CURRENT FILING DATE: 1999-05-13
; PRIOR APPLICATION NUMBER: US 60/085,296
; PRIOR FILING DATE: 1998-05-13
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 201
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; NAME/KEY: DOMAIN
; LOCATION: (376)...(576)
; OTHER INFORMATION: Polo protein C-terminal portion
; US-09-311-311C-21

Query Match 49.4%; Score 39; DB 4; Length 201;
Best Local Similarity 53.8%; Pred. No. 12;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 3 GSTXDYVYQNIQYA 15
Db 176 GVSKDLYQKIRYA 188

RESULT 7
US-09-551-826D-14

```

```

; Sequence 14, Application US/09551826D
; Patent No. 6558939
; GENERAL INFORMATION:
; APPLICANT: No. 6558939regaard-Madsen, Mads
; APPLICANT: Ostergaard, Peter Rahbek
; APPLICANT: Christensen, Claus Bo Voge
; APPLICANT: Lassen, Soren Flensted
; TITLE OF INVENTION: No. 6558939el Poteases And Variants Thereof
; FILE REFERENCE: 5665.200-US
; CURRENT APPLICATION NUMBER: US/09/551.826D
; CURRENT FILING DATE: 2000-04-17
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 14
; LENGTH: 313
; TYPE: PRT
; ORGANISM: Bacillus subtilis IS75
US-09-551-826D-14

Query Match 49.4%; Score 39; DB 4; Length 313;
Best Local Similarity 70.0%; Pred. No. 21;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 5 TXDVYQNIQ 14
| | | | |
Db 300 TNDVNNIQY 309
| | | | |

RESULT 8
US-09-328-352-6746
; Sequence 6746, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6746
; LENGTH: 1260
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-6746

Query Match 49.4%; Score 39; DB 4; Length 1260;
Best Local Similarity 58.3%; Pred. No. 1.le+02;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2 EGSTXDYQNIQ 13
| | | | |
Db 1080 EGTREYQSLQ 1091
| | | | |

RESULT 9
US-09-005-180A-1
; Sequence 1, Application US/09005180A
; Patent No. 612446
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Puri
; TITLE OF INVENTION: HUMAN VPS35/MEM3-RELATED PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:

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; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/005,180A
; FILING DATE: Filed January 8, 1998
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0457 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 796 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: LUNGTUT08
; CLONE: 2641812
US-09-005-180A-1

Query Match 48.7%; Score 38.5; DB 3; Length 796;
Best Local Similarity 47.1%; Pred. No. 77;
Matches 8; Conservative 4; Mismatches 4; Indels 1; Gaps 1;

QY 1 ABG-STXDYQNIQYAG 16
| | | | |
Db 86 AKGRKVADLYELVQYAG 102
| | | | |

RESULT 10
US-07-744-570B-2
; Sequence 2, Application US/07744570B
; Patent No. 5202249
; GENERAL INFORMATION:
; APPLICANT: Kluepfel, D.
; APPLICANT: Morosoli, R.
; APPLICANT: Shareck, F.
; TITLE OF INVENTION: Xylanase for Biobleaching
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Michael J. Bradley
; STREET: 1200 South 47th Street
; CITY: Richmond
; STATE: California
; COUNTRY: United States
; ZIP: 94804-0023
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44Mb storage
; COMPUTER: IBM
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/744,570B
; FILING DATE: 19910813
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 200 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: Single strand
; TOPOLOGY: Circular
US-07-744-570B-2

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Query Match 48.1%; Score 38; DB 1; Length 200;
Best Local Similarity 35.7%; Pred. No. 19;
Matches 5; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 AEGSTXDYVYQIQY 14
Db 116 SDGTYDIYETRY 129

RESULT 11

US-08-936-165A-462
; Sequence 462, Application US/08936165A
; Patent No. 6348582

GENERAL INFORMATION:

APPLICANT: Black, Michael
APPLICANT: Burnham, Martin
APPLICANT: Hodgson, John
APPLICANT: Knowles, David
APPLICANT: Lonetto, Michael
APPLICANT: Nicholas, Richard
APPLICANT: Pratt, Julie
APPLICANT: Reichard, Richard
APPLICANT: Rosenberg, Martin
APPLICANT: Ward, Judith
TITLE OF INVENTION: No. 6348582el Prokaryotic Polynucleotides,
NUMBER OF SEQUENCES: 534

CORRESPONDENCE ADDRESS:

ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA

ZIP: 19406-0939

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/936.165A
FILING DATE: 24-SEP-1997

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/027,032

FILING DATE: 24-SEP-1996

ATTORNEY/AGENT INFORMATION:

NAME: Gimmi, Edward R

REGISTRATION NUMBER: 38,891

REFERENCE/DOCKET NUMBER: P50549

TELECOMMUNICATION INFORMATION:

TELEPHONE: 610-270-4478

TELEFAX: 610-270-5090

TELEX:

INFORMATION FOR SEQ ID NO: 462:

SEQUENCE CHARACTERISTICS:

LENGTH: 290 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: Protein

US-08-936-165A-462

Query Match

Best Local Similarity 48.1%; Score 38; DB 4; Length 290;
Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 2 EGSTXDYVYQIQY 16
Db 82 DGTITDLYEGIKETG 96

RESULT 12

US-09-252-991A-20970
; Sequence 20970, Application US/09252991A
; Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 20970

LENGTH: 291

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-20970

Query Match

Best Local Similarity 48.1%; Score 38; DB 4; Length 291;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 AEGSTXDYVYQIQY 15

Db 175 SEGSRQLQNVQQA 189

RESULT 13

US-09-328-352-7027

; Sequence 7027, Application US/09328352

; Patent No. 6562958

GENERAL INFORMATION:

APPLICANT: Gary L. Breton et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER

TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: GTC99-03PA

CURRENT APPLICATION NUMBER: US/09/328,352

CURRENT FILING DATE: 1999-06-04

NUMBER OF SEQ ID NOS: 8252

SEQ ID NO 7027

LENGTH: 365

TYPE: PRT

ORGANISM: Acinetobacter baumannii

US-09-328-352-7027

Query Match

Best Local Similarity 48.1%; Score 38; DB 4; Length 365;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 2 EGSTXDYVYQIQY 14

Db 246 QGSTIDIFSNPQH 258

RESULT 14

US-09-134-000C-4582

; Sequence 4582, Application US/09134000C

; Patent No. 6617156

GENERAL INFORMATION:

APPLICANT: Lynn Doucette-Stamm et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO

TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 032796-032

CURRENT APPLICATION NUMBER: US/09/134,000C

CURRENT FILING DATE: 1998-08-13

PRIOR APPLICATION NUMBER: US 60/055,778

PRIOR FILING DATE: 1997-08-15

NUMBER OF SEQ ID NOS: 6812

SOFTWARE: Patent in version 3.1

us-09-737-297-3.sep04.ra1

Search completed: September 24, 2004, 23:13:01
Job time : 22 secs

Mon Sep 27 07:47:18 2004

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; SEQ ID NO 4582
; LENGTH: 455
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
; US-09-134-000C-4582

Query Match      48.1%; Score 38; DB 4; Length 455;
Best Local Similarity 70.0%; Pred. No. 50;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      4 STXDYVQNIQ 13
Db      207 SLEDYQNIQ 216

RESULT 15
US-09-107-532A-4335
; Sequence 4335, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 4335:
SEQUENCE CHARACTERISTICS:
LENGTH: 927 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (8) LOCATION 1...927
SEQUENCE DESCRIPTION: SEQ ID NO: 4335:

US-09-107-532A-4335
Query Match      48.1%; Score 38; DB 4; Length 927;
Best Local Similarity 70.0%; Pred. No. 1.2e+02;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      4 STXDYVQNIQ 13
Db      681 SLEDYQNIQ 690

```